MEMO

ARCADIS Design & Consultancy for natural and built assets

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From:
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Date:
May 23, 2023

Arcadis Project No.:
30174223

Subject:
Buick City 761.61(c) Request
RACER, Buick City, Flint, Michigan

This 761.61 (c) Request for Risk-Based Cleanup Approval has been prepared for the RACER Buick City Site (EPA ID 005356712), located in Flint, Michigan. This submittal presents the information required in 761.61(a)(3) for all areas of the Site where PCBs were detected in soil at a concentration exceeding 1 part per million (ppm). This memo requests EPA approval of the use restrictions as summarized below.

Procedures

The Site's standard operating procedures (SOPs) for field sample collection procedures, laboratory extraction and analytical procedures, and QA/QC requirements employed during characterization of the Site (per § 761.61(a)(3)(i)(B)) were presented in Appendix C of the RCRA Facility Investigation Work Plan (March 30, 2001) and updated in the Corrective Measures Implementation Work Plan (August 13, 2010).

PCB Impact Summary Memo Updates

As required in § 761.61(a)(3)(i)(C), memos summarizing the location and extent of PCB impacts (maps and data tables), delineation locations, and the nature and source of contamination (where known) were previously submitted to the EPA on April 11, 2022. The memos for PCB Areas #1 through #20 have been updated to incorporate the additional information provided in the January 17, 2023, response to EPA comments and are presented in **Attachment A**. Pertinent laboratory reports are included in **Attachment B**. (Per § 761.61(a)(3)(i)(C)).

Proposed Use Restrictions

General Conditions for all Restricted Areas.

- An Operation, Maintenance, and Monitoring (OMM) plan for the final site remedy will include an EGLE approved inspection schedule to confirm that the Site use is consistent with each restriction described below and any required cap remains intact.

- All restricted areas are subject to a general notice to any potential purchaser of the property that the land has been used for PCB remediation waste disposal and has a restricted use pursuant to 40 CFR §761.61. A cap as defined in §761.61 where applicable must be protected/maintained in perpetuity.

- Any cap disturbed, damaged, or removed for development/construction purposes must be repaired or replaced with the same or equivalent cap pursuant to §761.61.

- The EPA will be notified of any future use changes for these PCB Areas.

The level of contamination left in place is listed under each area below.

PCB Area #1 (Low Occupancy) – Approval of low occupancy use is requested for PCB Area #1 per 40 CFR 761.61(a)(4)(i)(B)(1).

- One soil sample detected PCBs at 1.41 ppm from 1 to 3 ft bgs and the surface cover is gravel. The area is currently vacant with no Site activities.

- A low occupancy restrictive covenant will be filed, which also prohibits excavation in this area unless all excavated soils are characterized and managed in accordance with applicable regulations.

PCB Area #2 (Risk-Based High Occupancy) – Approval of a risk based high occupancy use is requested for PCB Area #2 per 40 CFR 761.61(c).

- Two soil samples detected PCBs at concentrations greater than 1 ppm with a maximum detection of 11 ppm. Impacts were detected from 10 to 14 ft bgs and the surface cover is 1 to 3.5 ft of concrete. The area is currently vacant with no Site activities.

- **Table 1** presents the pathway evaluation for nonresidential drinking water, vapor intrusion, direct contact, and GSI. There are no complete pathways at PCB Area #2 for PCBs.

- A high occupancy use restrictive covenant will be filed that requires a concrete cap (or equivalent) be maintained in perpetuity and if it is disturbed damaged or removed it must be repaired or replaced as soon as possible and that any excavation below 9 feet bgs is prohibited unless all excavated soils are characterized and managed in accordance with applicable regulations.

Risk-based high occupancy use is appropriate because there are no complete pathways, the highest impact is 11 ppm vs the regulatory requirement of 10 ppm, and the impacted soils are located 10 feet bgs beneath a concrete cap.

PCB Area #3 (Risk-Based Low Occupancy) – Approval of risk-based low occupancy use is requested for PCB Area #3 per 40 CFR 761.61(a)(4)(i)(B)(3).

- As discussed in the PCB Area #3 memo presented in **Attachment A,** a portion of the area was excavated in 2018/2019 to remove impacts exceeding 25 ppm. The impacts greater than 25 ppm discussed below were identified in 2020, following these excavation activities. The shallow impact > 50 ppm PCBs was excavated in 2022; however, one impact > 25 ppm remains in place as discussed below.

- Twenty-three soil samples detected PCBs at a concentration greater than 1 ppm with a maximum detection of 26 ppm. Impacts were detected from 4 to 12 ft bgs and surface cover is primarily 0.5 to 2.5 ft concrete, with the exception of the excavation area and the railroad tracks. The area is currently vacant with no Site activities.

- Two soil samples collected from 4 to 8 ft bgs detected PCBs at concentrations that exceed Michigan Part 201 Nonresidential Direct Contact (NDC) criteria (16 ppm). Including the maximum detection of 26 ppm at a depth of 6 to 8 ft bgs. The western portion of PCB Area #3, where the detection of 26 ppm is located, is covered with 1 to 2.5 ft of concrete. The approximate extents of the concrete are presented on **Figure 1**. The extent of the concrete cap will be surveyed and included in the final Declaration of Restrictive Covenant (DRC).

  A risk-based low occupancy use restrictive covenant will be filed that requires the concrete cap (or equivalent) be maintained in perpetuity and if it is disturbed damaged or removed it must be repaired or replaced as soon as possible and that any excavation below 3 feet bgs is prohibited unless all excavated soils are characterized and managed in accordance with applicable regulations and direct contact with excavated soils must be prevented.

Risk-based low occupancy use is appropriate because there are no complete pathways, the highest impact is 26 ppm vs the regulatory requirement of 25 ppm, and the soils greater than 25 ppm (SB-10-45) are located 6 to 8 feet bgs covered by at least 0.5 foot of concrete.

PCB Area #4 (Risk-Based High Occupancy) – Approval of a risk-based high occupancy use is requested for PCB Area #4 per 40 CFR 761.61(c).

- Eight soil samples detected PCBs at a concentration greater than 1 ppm, with a maximum detection of 17 ppm. The impacts were detected from 11 to 18 feet bgs and surface cover is 1 to 3.5 ft concrete. The area is currently being used for vehicle parking.

- Two soil samples detected PCBs at a concentration greater than 10 ppm. A detection of 12 ppm from 11 to 13 ft bgs and a detection of 17 ppm from 13 to 15 ft bgs which exceed the NDC criteria.

- **Table 1** presents the pathway evaluation for nonresidential drinking water, vapor intrusion, direct contact, and GSI. There are no complete pathways at PCB Area #4 for PCBs.

- A high occupancy use restrictive covenant will be filed that requires a concrete cap (or equivalent) be maintained in perpetuity and if it is disturbed damaged or removed it must be repaired or replaced as soon as possible and that any excavation below 10 feet bgs is prohibited unless all excavated soils are characterized and managed in accordance with applicable regulations and direct contact with excavated soils must be prevented.

Risk-based high occupancy is appropriate for PCB Area #4 because there are no complete pathways, the highest PCB impact is 17 ppm from 13 to 15 ft bgs and the area is covered by at least 1 foot of concrete.

PCB Area #5 (Risk-Based Low Occupancy) – Approval of a risk-based low occupancy use for PCB Area #5 is requested per 40 CFR 761.61(c).

- As discussed in the PCB Area #5 memo presented in **Attachment A,** a portion of the area was excavated in 2018/2019 to remove impacts exceeding 25 ppm. The impacts greater than 25 ppm discussed below were identified in 2020, following these excavation activities.

- Twenty-seven soil samples detected PCBs at a concentration greater than 1 ppm with a maximum detection of 61 ppm. The impacts were detected from 3 to 17 feet bgs and surface cover is primarily 1 to 2 feet concrete, with exception of the former excavation area and the eastern area, which is covered with gravel and general fill soil. The area is currently being used for vehicle parking.

- Three soil samples collected from PCB Area #5 detected PCBs at concentrations exceeding the NDC criteria at depths ranging from 3 to 17 ft bgs. Two of the samples detected PCBs at a concentration greater than 25 ppm. A sample collected from SB-DH-RW-1-30 detected 28 ppm PCBs from 3 to 5 ft bgs and SB-DH-RW-1-27 detected 61 ppm PCBs from 15 to 17 ft bgs.

- Surface cover at SB-DH-RW-1-30 is currently gravel; however, a 10-inch clay 10^{-7} cap is planned to be installed at this location (Summer 2023). The approximate extents of the clay cap are presented on **Figure 2**. The extent of the completed clay cap will be surveyed and included in the final Declaration of Restrictive Covenant (DRC).

- Surface cover at SB-DH-RW-1-27 is 1.5 feet of concrete. The approximate extents of the concrete cap are presented on **Figure 2**. The extent of the concrete cap will be surveyed and included in the final Declaration of Restrictive Covenant (DRC).

- **Table 1** presents the pathway evaluation for nonresidential drinking water, vapor intrusion, direct contact, and GSI. There are no complete pathways at PCB Area #5 for PCBs.

- A low occupancy use restrictive covenant will be filed that requires the concrete cap (or equivalent) be maintained in perpetuity and if it is disturbed damaged or removed it must be repaired or replaced as soon as possible and that any excavation below 2 feet bgs is prohibited unless all excavated soils are characterized and managed in accordance with applicable regulations and direct contact with excavated soils must be prevented.

Risk-based low occupancy use is appropriate for PCB Area #5 because there are no complete pathways, and the two PCB impacts in soil greater than 25 ppm are covered by 1.5 foot of concrete or 10" of 10^{-7}clay soil (to be completed Summer 2023) per 40 CFR §761.61(a)(7) and (8).

PCB Area #6 (Low Occupancy) – Approval of a low occupancy use is requested for PCB Area #6 per 40 CFR 761.61(a)(4)(i)(B)(1).

- One soil sample detected PCBs at a concentration greater than 1 ppm with a detection of 1.6 ppm. The impact was detected from 5 to 7 feet bgs and surface cover is gravel. The area is currently being used for vehicle parking. Note that the sample collected from 1 to 3 ft bgs did not detect PCBs above 1 ppm and the 3 to 5 ft bgs interval was not sampled.

- A low occupancy use restrictive covenant will be filed that prohibits any excavation below 2 feet bgs unless all excavated soils are characterized and managed in accordance with applicable regulations.

PCB Area #7 (Low Occupancy) – Approval of a low occupancy use is requested for PCB Area #7 per 40 CFR 761.61(a)(4)(i)(B)(1).

- One soil sample detected PCBs at a concentration greater than 1 ppm with a detection of 1.8 ppm. The impact was detected from 8 to 10 feet bgs and surface cover consists of 0.5 to 4.5 ft of concrete, with the exception of the railroad portion, which is covered with gravel. The area is currently vacant with no Site activities.

- A low occupancy use restrictive covenant will be filed that prohibits any excavation below 7 feet bgs unless all excavated soils are characterized and managed in accordance with applicable regulations.

PCB Area #8 (Low Occupancy) – Approval of a low occupancy use is requested for PCB Area #8 per 40 CFR 761.61(a)(4)(i)(B)(1).

- Fifty-six soil samples detected PCBs at a concentration greater than 1 ppm with a maximum detection of 15 ppm. The impacts were detected from 0 to 10 feet bgs and surface cover consists of topsoil. The area is currently vacant with no Site activities.

- A low occupancy use restrictive covenant will be filed that prohibits any excavation unless all excavated soils are characterized and managed in accordance with applicable regulations.

PCB Area #9 (High Occupancy) – Approval of a high occupancy use is requested for PCB Area #9 per 40 CFR 761.61(a)(4)(i)(A).

- One soil sample detected PCBs at a concentration greater than 1 ppm with a detection of 1.91 ppm. The impact was detected from 0.7 to 2 feet bgs and surface cover consists of 1 foot of concrete. The area is currently used for vehicle parking.

- A high occupancy use restrictive covenant will be filed that requires a concrete cap (or equivalent) be maintained in perpetuity and if it is disturbed damaged or removed it must be repaired or replaced as soon as possible and that any excavation is prohibited unless all excavated soils are characterized and managed in accordance with applicable regulations.

PCB Area #10 (High Occupancy) – Approval of a high occupancy use is requested for PCB Area #10 per 40 CFR 761.61(a)(4)(i)(A).

- One soil sample detected PCBs at a concentration greater than 1 ppm with a detection of 3.6 ppm. The impact was detected from 3 to 5 feet bgs and surface cover consists of 1 foot of concrete. The area is currently used for vehicle parking. Note that the 1 to 3 ft bgs interval was not sampled.

- A high occupancy use restrictive covenant will be filed that requires a concrete cap (or equivalent) be maintained in perpetuity and if it is disturbed damaged or removed it must be repaired or replaced as soon as possible and that any excavation is prohibited unless all excavated soils are characterized and managed in accordance with applicable regulations.

PCB Area #11 (High Occupancy) – Approval of a high occupancy use is requested for PCB Area #11 per 40 CFR 761.61(a)(4)(i)(A).

- One soil sample detected PCBs at a concentration greater than 1 ppm with a detection of 3.5 ppm. The impact was detected from 0.7 to 2.7 feet bgs and surface cover consists of 0.7 feet of concrete. The area is currently vacant with no Site activities.

- A high occupancy use restrictive covenant will be filed that requires a concrete cap (or equivalent) be maintained in perpetuity and if it is disturbed damaged or removed it must be repaired or replaced as soon as possible and that any excavation is prohibited unless all excavated soils are characterized and managed in accordance with applicable regulations.

PCB Area #12 (Low Occupancy) – Approval of a low occupancy use is requested for PCB Area #12 per 40 CFR 761.61(a)(4)(i)(B)(1).

- One soil sample detected PCBs at a concentration greater than 1 ppm with a detection of 6.9 ppm. The impact was detected from 0.3 to 2 feet bgs and surface cover consists of 0.3 ft of asphalt. The area is currently used for vehicle parking.

- A low occupancy use restrictive covenant will be filed that prohibits any excavation unless all excavated soils are characterized and managed in accordance with applicable regulations.

PCB Area #13 (Low Occupancy) – Approval of a low occupancy use is requested for PCB Area #13 per 40 CFR 761.61(a)(4)(i)(B)(1).

- Four soil samples detected PCBs at a concentration greater than 1 ppm with a maximum detection of 1.6 ppm. The impacts were detected from 0 to 2 feet bgs and surface cover consists of soil. The area is currently vacant with no Site activities.

- A low occupancy restrictive covenant will be filed that prohibits any excavation unless all excavated soils are characterized and managed in accordance with applicable regulations.

PCB Area #14 (Low Occupancy) – Approval of a low occupancy use is requested for PCB Area #14 per 40 CFR 761.61(a)(4)(i)(B)(1).

- One soil sample detected PCBs at a concentration greater than 1 ppm with a detection of 1.13 ppm. The impacts were detected from 4 to 6 feet bgs and surface cover consists of concrete/asphalt/gravel. The area is currently used for vehicle parking. Note that the sample collected from 0.7 to 2 ft bgs did not detect PCBs above 1 ppm and the 2 to 4 ft bgs interval was not sampled.

- A low occupancy restrictive covenant will be filed that prohibits any excavation below a depth of 1 ft bgs unless all excavated soils are characterized and managed in accordance with applicable regulations.

PCB Area #15 (Low Occupancy) – Approval of a low occupancy use is requested for PCB Area #15 per 40 CFR 761.61(a)(4)(i)(B)(1).

- One soil sample detected PCBs at a concentration greater than 1 ppm with a detection of 4.7 ppm. The impacts were detected from 6 to 8 feet bgs and surface cover consists of soil. The area is currently vacant with no Site activities.

- A low occupancy restrictive covenant will be filed that prohibits any excavation below a depth of 5 ft bgs unless all excavated soils are characterized and managed in accordance with applicable regulations.

PCB Area #16 (High Occupancy) – Approval of a high occupancy use is requested for PCB Area #16 per 40 CFR 761.61(a)(4)(i)(A).

- One soil sample detected PCBs at a concentration greater than 1 ppm with a detection of 7 ppm. The impacts were detected from 1 to 3 feet bgs and surface cover consists of 0.5 foot of concrete. The area is currently vacant with no Site activities.

- A high occupancy use restrictive covenant will be filed that requires a concrete cap (or equivalent) be maintained in perpetuity and if it is disturbed damaged or removed it must be repaired or replaced as soon as possible and that any excavation is prohibited unless all excavated soils are characterized and managed in accordance with applicable regulations.

PCB Area #17 (Low Occupancy) – Approval of a low occupancy use is requested for PCB Area #17 per 40 CFR 761.61(a)(4)(i)(B)(1).

- One sample collected of oil detected PCBs at a concentration greater than 1 ppm with a detection of 2.5 ppm. The sample was collected from surface water in tunnel at ~8 feet bgs and surface cover in the area varies. The area is currently used for vehicle parking.

- A low occupancy use restrictive covenant will be filed that prohibits any excavation below a depth of 4 ft bgs unless all excavated soils are characterized and managed in accordance with applicable regulations.

PCB Area #18 (Low Occupancy) – Approval of a low occupancy use is requested for PCB Area #18 per 40 CFR 761.61(a)(4)(i)(B)(1).

- Impacted construction debris was placed in a former basement during demolition activities. PCB concentrations are less than 10 ppm. The impacted material was placed >8.5 feet below ground surface and was covered with 6 feet of crushed concrete (containing less than or equal to 1 ppm PCBs), 2 feet of imported consolidated sandy clay fill, and capped with 6 inches of 21AA gravel at the ground surface. The area is currently vacant with no Site activities.

- A low occupancy use restrictive covenant will be filed that prohibits any excavation below 7 feet bgs unless all excavated soils are characterized and managed in accordance with applicable regulations.

PCB Area #19 (Low Occupancy) – Approval of a low occupancy use is requested for PCB Area #19 per 40 CFR 761.61(a)(4)(i)(B)(1).

- Impacted construction debris was placed in a former basement during demolition activities. PCB concentrations are less than 10 ppm. The impacted material was placed >8.5 feet below ground surface and was covered with 6 feet of crushed concrete (containing less than or equal to 1 ppm PCBs), 2 feet of imported consolidated sandy clay

fill, and capped with 6 inches of 21AA gravel at the ground surface. The area is currently vacant with no Site activities.

- A low occupancy use restrictive covenant will be filed that prohibits any excavation below 7 feet bgs unless all excavated soils are characterized and managed in accordance with applicable regulations.

PCB Area #20 (Risk-Based High Occupancy) – Approval of a high occupancy use is requested for PCB Area #20 per 40 CFR 761.61 (c).

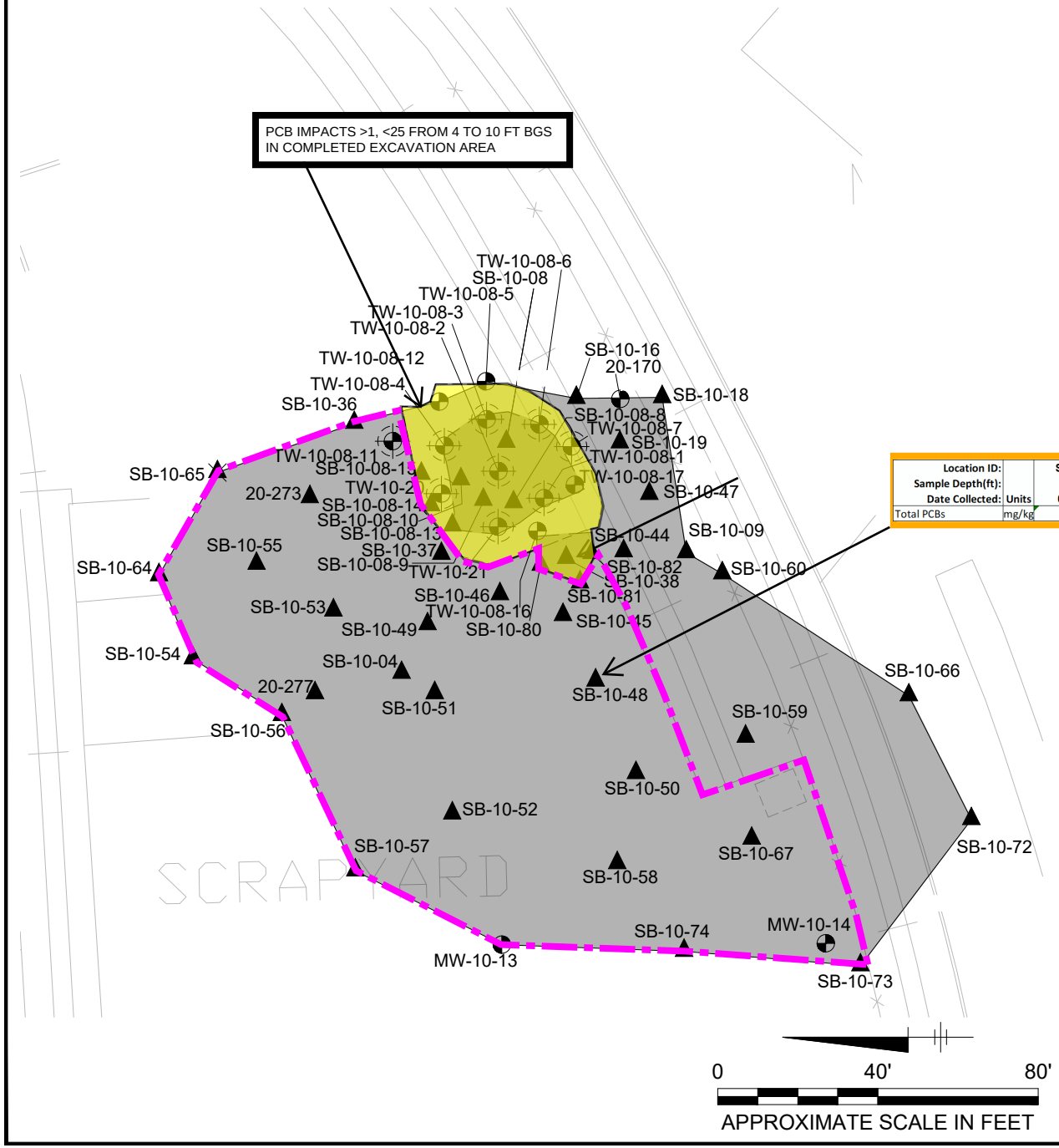
- Former Oil Interceptor #2 was decommissioned in January/February 2023. PCB impacted materials include sediment and sheet pile walls of the interceptor structure. The area is currently vacant with no Site activities.
- Approximately 2 feet of sediment was left in place at the bottom of the structure (~ 18 to 20 ft bgs). PCBs were detected in the sediment at a concentration of 2 ppm.
- Surface wipe samples were collected from six locations on the interior sheet pile walls of the interceptor structure at a depth of 7 ft bgs. One sample did not detect PCBs and the remaining 5 samples detect PCBs at concentrations ranging from 3 to 24 ug/100cm^2.
- The PCB-impacted sediment was covered with imported fill material to 4.5 ft bgs. A cap then was placed on top of the fill material consisting of a 60-mil geomembrane liner, a six-ounce nonwoven geotextile, one-foot layer of imported clay material, an additional layer of six-ounce nonwoven geotextile (to act as a demarcation layer) and imported fill material to surface grade.
- **Table 1** presents the pathway evaluation for nonresidential drinking water, vapor intrusion, direct contact, and GSI. There are no complete pathways at PCB Area #20 for PCBs.
- A high occupancy use restrictive covenant will be filed that prohibits any excavation below 2 feet bgs with no exception unless a specific work plan for such work is approved in writing in advance by RACER Trust and USEPA.

Risk-based high occupancy is appropriate for PCB Area #20 because there are no complete pathways, a secure enhanced cap that exceeds the requirements of 40 CFR 7971.61(a) (7) and (8) is in place, and the PCB impacted sheet pile and sediment are located >5 ft bgs.

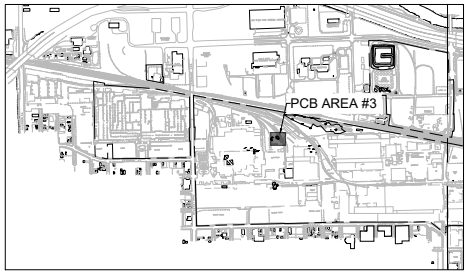
PCB Containing LNAPL

Restrictive covenants will be filed for all of the LNAPL Areas present at the Buick City Site. The restrictions include that if any liquid LNAPL is encountered it must be removed, placed in an appropriate container and characterized for off-Site disposal.

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\BSSmall\ACCDocs\Arcadis\AUS-RACER TRUST-BUICK CITY-FLINT Michigan\Project Files\2022\01-In Progress\01-DWG\RTBC-RC-SITE PLANS PCB-2.dwg LAYOUT: 4E SAVED: 10/20/2022 9:59 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 5/11/2023 3:44 PM BY: SMALL, BRIAN



Location ID:		SB-10-48	SB-10-48	SB-10-48
Sample Depth(ft):		1 - 3	4-6	6-8
Date Collected:	Units	01/06/20	01/06/20	01/06/20
Total PCBs	mg/kg	0.4	0.33 U	26 Y



LEGEND:

- EXTENT OF PROPOSED PCB AREA RESTRICTION
- EXTENT OF COMPLETED EXCAVATION
- LOCATION WHERE PCBS ARE GREATER THAN 25 PPM
- APPROX AREA COVERED WITH CONCRETE

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

Y - Elevated reporting limit due to high target detection limit

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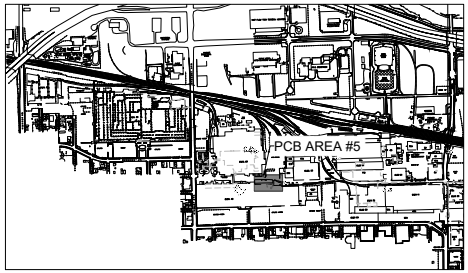
PCB AREA #3
CONCRETE COVER AREA

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FIGURE
1

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\gstowell\BIM 360\Arcadis\ANA - RACER TRUST\Project Files\Buick City RCRA\2020\30006800\01-DWG\RTBC-RC-SITE PLANS PCB.dwg LAYOUT: 7 SAVED: 4/8/2020 9:20 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 6/3/2020 2:28 PM BY: STOWELL, GARY

XREFS: IMAGES: PROJECTNAME: ----
X-SAMPLE NETWORK
x-site base
X-BDR-RC-LA



Location ID:		SB-DH-RW-1-30	SB-DH-RW-1-30
Sample Depth(ft):		3 - 5	5 - 7
Date Collected:	Units	02/25/20	02/25/20
Total PCBs	mg/kg	28 Y	11 Y

Location ID:		SB-DH-RW-1-27
Sample Depth(ft):		15 - 17
Date Collected:	Units	01/07/20
Total PCBS	mg/kg	61 Y

LEGEND:

- APPROXIMATE EXTENT OF PCB AREA
- APPROXIMATE EXTENT OF EXCAVATION
- LOCATION WHERE PCBS WERE DETECTED AT A CONCENTRATION GREATER THAN 25 PPM
- APPROX AREA COVERED WITH CONCRETE
- AREA TO BE COVERED WITH 10" OF 10^{-7} CLAY

0 80' 160'
APPROXIMATE SCALE IN FEET

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PCB AREA #5
CONCRETE AND CLAY COVER AREAS

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FIGURE
2

Table 1 - 761.61 (c) Pathway Evaluation
RACER Buick City Site, Flint, Michigan

PCB Area	Use Restriction	Maximum PCB Concentration	Drinking Water Pathway	Vapor Intrusion Pathway	Direct Contact Pathway	Rationale	GSI Pathway	Rationale
#2	Risk-based High Occupancy	11	Not Complete A restrictive covenant has been filed to address the pathway onSite. There are no drinking water receptors downgradient of the Site[1].	Not Complete Soil samples collected at the Site do not exceed Part 201 VI criteria. A restrictive covenant has been filed to address the pathway on-site [2].	Not Complete	Does not exceed Nonresidential Direct Contact Criteria	Not Complete	Storm sewers in the vicinity of PCB Area #2 have been bulkheaded as part of Site remediation activities. The nearest storm sewer (Outfall 003) is located between 1,000 and 1,700 feet downgradient of PCB Areas #2 - #5. Outfall 003 is sampled weekly for PCBs. The last detection of PCBS in Outfall 003 was in 2018. The ~180 storm sewer samples collected since then have not detected PCBs.
#3	Risk-based Low Occupancy	26			Not Complete	PCB concentrations were detected at a maximum of 26 ppm. Two samples collected from 6 to 8 ft bgs exceed EGLE's Part 201 Nonresidential Direct Contact criteria (16 ppm). The restrictive covenant drafted for PCB Area #3 allows excavation below 3 feet bgs subject to conditions.	Not Complete	
#4	Risk-based High Occupancy	17			Not Complete	PCB concentrations were detected at a maximum of 17 ppm. One sample collected from 13 to 15 ft bgs exceeded EGLE's Part 201 Nonresidential Direct Contact criteria (16 ppm). The restrictive covenant drafted for PCB Area #4 allows excavation below 10 feet bgs subject to conditions.	Not Complete	
#5	Risk-based Low Occupancy	61			Not Complete	PCB concentrations were detected at a maximum of 61 ppm. Five samples collected from 3 to 17 ft bgs exceeded EGLE's Part 201 Nonresidential Direct Contact criteria (16 ppm). The restrictive covenant drafted for PCB Area #4 allows excavation below 2 feet bgs subject to conditions.	Not Complete	
#20	Risk-based High Occupancy	2			Not Complete	Does not exceed Nonresidential Direct Contact Criteria	Not Complete	Impacts at PCB Area # 20 are contained within a nonporous metal structure covered with a geomembrane. The associated sewer lines have been bulkheaded eliminating the pathway to Outfall 003.

Notes

1 RACER Buick City Residential Water Well Survey (September 13, 2041. Revised June 2, 2016. Updated October 11, 2018)
2 Future users are required to evaluate and address vapor intrusion concerns as part of any new construction.

Attachment A

MEMO

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Date:
April 4, 2022
Revised May 15, 2023

Arcadis Project No.:
30121887

Subject:
PCB Area #1 - RFI-55-09 TSCA Deed Restriction
RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

At PCB Area #1, one sample collected from 1 to 3 feet below ground surface (bgs) contains 1.41 parts per million (ppm) PCBs. Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants. Under current conditions this area will be ***closed as low occupancy***, but in the event that construction is completed with installation of a cap in accordance with 40 CFR §761.61(a)(7) *[6 inches of concrete or 10" of properly compacted soil]*, the deed restriction may be ***modified to high occupancy on the condition the cap remains in place.***

1.1 Surface Cover and Geology

Surface cover at PCB Area #1 consists of 2 feet of gravel in the area of the exceedance, underlain by approximately 5 to 10 feet of fill consisting of slag, foundry sand, and clay. Beneath the fill, the lithology consists primarily of sand, with silt and clay intervals. The water table was encountered at 13.5 feet bgs.

PCBs were detected above 1 ppm in one sample collected from 1 to 3 feet bgs, which consists of gravel and fill sand/silt. The source of this impact is not known.

1.2 PCB Impact and Delineation

A soil sample collected from boring RFI-55-09 from 1 to 3 feet bgs detected PCBs at a concentration of 1.41 ppm. **Figure 1** presents the extent of the proposed restricted area and the locations of the delineation points. Vertical and horizontal delineation of this impact is detailed below.

1.2.1 Vertical Delineation

- A deeper sample collected at RFI-55-09 from 9 to 11 feet bgs did not detect PCBs; therefore, the vertical delineation is complete.
- Surface cover in this area consists of 2 feet of gravel.

1.2.2 Horizontal Delineation

- Soil samples collected from 55-5/5R (0 to 2, 2 to 4, and 12 to 14 ft bgs), SB-55-04 (1 to 3 and 3 to 5 feet bgs), SB-55-05 (1 to 3 and 3 to 5 feet bgs), SB-55-06 (1 to 3 and 3 to 5 feet bgs) and WWTP-1 (0 to 2 and 2 to 4 feet bgs) did not detect PCBs.
- PCB impacts are delineated by WWTP-1, SB-55-04, SB-55-05, SB-55-06, and 55-5R which are 100 feet northeast, 25 feet southeast, 15 feet south, 25 feet west, and 75 feet northwest of RFI-55-09 respectively (**Figure 1**).

Also, 16 soil samples collected from nine borings completed in the vicinity of PCB Area #1 did not detect PCBs (**Figure 2**).

1.3 Restrictions

1.3.1 Current Proposed Restrictions

At PCB Area #1, PCBs were detected at a concentration greater than 1 ppm, but less than 10 ppm without a surface cover that meets the requirements of a TSCA cap per 761.61 (a)(7) and (a)(8). Therefore, **a low occupancy deed restriction** will be placed at PCB Area #1.

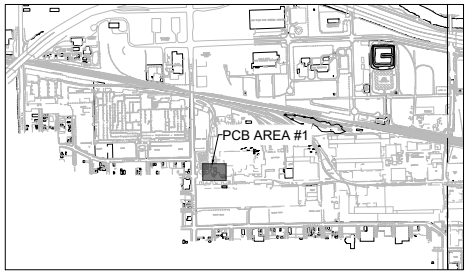
In the event of redevelopment in the area, construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

1.3.2 Potential Future Modification

After construction is completed with installation of a cap in accordance with 40 CFR §761.61(a)(7) *[6 inches of concrete or 10" of properly compacted soil]* the deed restriction may be ***modified to high occupancy on the condition the cap remains in place.***

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\aschilling\ACCDocs\Arcadis\AUS-RACER TRUST-BUICK CITY-FLINT Michigan\Project Files\2022\01-In Progress\01-DWG\2022-RC-SITE PLANS PCB.dwg LAYOUT: 4C SAVED: 11/4/2022 11:00 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 11/4/2022 11:05 AM BY: SCHILLING, ADAM

XREFS: IMAGES: PROJECTNAME: ----
X-SITE BASEFLINT SKETCH 3.65 MSF (002).jpg
X-BDR-RC-LA



Location ID:		WWTP-1	WWTP-1
Sample Depth(ft):		0 - 2	2 - 4
Date Collected:	Units	03/15/01	03/15/01
Total PCBs	mg/kg	0.038 U	0.074 U

Location ID:		SB-55-04	SB-55-04
Sample Depth (ft)		1-3	3-5
Date Collected:	Units	10/20/22	10/20/22
Total PCBs	mg/kg	0.33 U	0.33 U

Location ID:		RFI-55-09	RFI-55-09
Sample Depth(ft):		1 - 3	9 - 11
Date Collected:	Units	06/27/01	06/27/01
Total PCBs	mg/kg	1.41	0.038 U

Location ID:		SB-55-05	SB-55-05
Sample Depth (ft)		1-3	3-5
Date Collected:	Units	10/20/22	10/20/22
Total PCBs	mg/kg	0.33 U	0.33 U

WWTP-1
SB-55-04
SB-55-05
RFI-55-09
SB-55-06
55-5

FORMER FACTORY 10 FOUNDATION
(EXTENDS ~3 FEET BGS)

RFI-10-27

Location ID:		SB-55-06	SB-55-06
Sample Depth (ft)		1-3	3-5
Date Collected:	Units	10/20/22	10/20/22
Total PCBs	mg/kg	0.33 U	0.33 U

Location ID:		55-5R	55-5R	55-5R
Sample Depth (ft)		0-2	2-4	12-14
Date Collected:	Units	4/20/2022	4/20/2022	4/20/2022
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

LEGEND:

- EXTENT OF PROPOSED PCB AREA RESTRICTION
- LOCATION WHERE PCBS ARE GREATER THAN 1 PPM
- LOCATION WHERE PCBS ARE LESS THAN 1 PPM

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

PCB IMPACTS DETECTED AT A CONCENTRATION OF 1.41 PPM

0 60' 120'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61C REQUEST

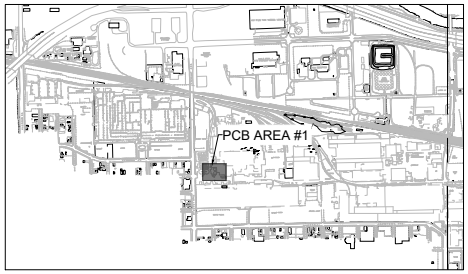
PCB AREA #1 EXCEEDANCE AND DELINEATION LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\aschilling\ACCDocs\Arcadis\AUS-RACER TRUST-BUICK CITY-FLINT Michigan\Project Files\2022\01-In Progress\01-DWG\2022-RC-SITE PLANS PCB.dwg LAYOUT: 4C SAVED: 11/4/2022 11:00 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 11/4/2022 11:05 AM BY: SCHILLING, ADAM

XREFS: IMAGES: PROJECTNAME: ----
X-SITE BASEFLINT SKETCH 3.65 MSF (002).jpg
X-BDR-RC-LA



20-220 (1991)
(12.5 - 15 ft) 0.033 U

WMU 3 Area
2012-2013 - Two IDW samples ND for PCBs

55-1 (1999)
(11 - 13 ft) 0.33 U

WWTP-1
SB-55-04
SB-55-05
RFI-55-09
SB-55-06
55-5

WWTP-2 (2001)
(0 - 2 ft) 0.038 U
(2 - 4 ft) 0.038 U
(8 - 10 ft) 0.036 U

Location ID:		RFI-10-27	RFI-10-27	RFI-10-27
Sample Depth(ft):		1 - 3	7 - 9	9 - 11
Date Collected:	Units	01/15/02	01/15/02	01/15/02
Total PCBs	mg/kg	0.039 U	0.042 U	0.039 U

RFI-10-27

20-121 (1991)
(7.5 - 10 ft) 0.033 U

Location ID:		SB-05-23	SB-05-23
Sample Depth(ft):		1 - 3	11.5 - 13.5
Date Collected:	Units	03/18/19	03/18/19
Total PCBs	mg/kg	0.330 U	0.330 U

43-269 (1994)
(14 - 16 ft) 0.08 U
(23 - 25 ft) 0.33 U

S DETECTED AT A CONCENTRATION OF 1.41 PPM

RFI-05-03 (2001)
(0.6 - 2.6 ft) 0.039 U
(8.6 - 10.6 ft) 0.038 U

43-100 (1991)
(2.5 - 5 ft) 0.033 U

0 60' 120'
APPROXIMATE SCALE IN FEET

LEGEND:

- EXTENT OF PROPOSED RESTRICTED AREA
- LOCATION WHERE PCBS ARE LESS THAN 1 PPM
- PREVIOUS PROPOSED EXTENT

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

All results are presented in mg/kg.

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
761.61C REQUEST

PCB AREA #1
ADDITIONAL PCB DATA

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

Table 1 - PCB Area #1 Delineation Data Summary
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	55-5R 0 - 2 04/20/22	55-5R 2 - 4 04/20/22	55-5 12 - 14 05/06/99	RFI-55-09 1 - 3 06/27/01	RFI-55-09 9 - 11 06/27/01	SB-55-04 1 - 3 10/20/22	SB-55-04 3 - 5 10/20/22	SB-55-05 1 - 3 10/20/22	SB-55-05 3 - 5 10/20/22	SB-55-06 1 - 3 10/20/22	SB-55-06 3 - 5 10/20/22	WWTP-1 0 - 2 03/15/01
PCB													
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.037 U	0.038 U [0.038 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.038 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.037 U	0.038 U [0.038 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.038 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.037 U	0.038 U [0.038 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.038 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.037 U	0.038 U [0.038 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.038 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.91	0.038 U [0.038 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.038 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.35	0.038 U [0.038 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.038 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.15	0.038 U [0.038 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.038 U
Aroclor-1262 (PCB-1262)	mg/kg	NA	NA	0.33 U	NA	NA	NA	NA	NA	NA	NA	NA	0.038 U
Aroclor-1268 (PCB-1268)	mg/kg	NA	NA	0.33 U	NA	NA	NA	NA	NA	NA	NA	NA	0.038 U

Notes:
mg/kg - milligrams per kilogram
NA - Not analyzed
ft bgs - feet below ground surface
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

Table 1 - PCB Area #1 Delineation Da
RACER Trust, Buick City Site, Flint, M

Location ID: Sample Depth(ft BGS): Date Collected:	Units	WWTP-1 2 - 4 03/15/01
PCB		
Aroclor-1016 (PCB-1016)	mg/kg	0.074 U
Aroclor-1221 (PCB-1221)	mg/kg	0.074 U
Aroclor-1232 (PCB-1232)	mg/kg	0.074 U
Aroclor-1242 (PCB-1242)	mg/kg	0.074 U
Aroclor-1248 (PCB-1248)	mg/kg	0.074 U
Aroclor-1254 (PCB-1254)	mg/kg	0.074 U
Aroclor-1260 (PCB-1260)	mg/kg	0.074 U
Aroclor-1262 (PCB-1262)	mg/kg	0.074 U
Aroclor-1268 (PCB-1268)	mg/kg	0.074 U

Notes:
mg/kg - milligrams per kilogram
NA - Not analyzed
ft bgs - feet below ground surface
U - The compound was analyzed for but

Table 2 - PCB Area #1 - Additional Delineation Samples
RACER Buick City, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	SB-55-04 1 - 3 10/20/22	SB-55-04 3 - 5 10/20/22	SB-55-05 1 - 3 10/20/22	SB-55-05 3 - 5 10/20/22	SB-55-06 1 - 3 10/20/22	SB-55-06 3 - 5 10/20/22
PCB							
Aroclor-1016 (PCB-1016)	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U
Aroclor-1221 (PCB-1221)	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U
Aroclor-1232 (PCB-1232)	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U
Aroclor-1242 (PCB-1242)	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U
Aroclor-1248 (PCB-1248)	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U
Aroclor-1254 (PCB-1254)	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U
Aroclor-1260 (PCB-1260)	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U
Miscellaneous							
Total solids	%	93	90	92	95	94	91

Notes:
ug/kg - microgram per kilogram
U - Analyte not detected. Assocaited value is the reporting limit.

MEMO

ARCADIS Design & Consultancy for natural and built assets

To:
Grant Trigger

Copies:
Chris Peters
Erin Kozak

Arcadis of Michigan, LLC
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

From:
Micki M. Maki

Date:
April 4, 2022
Revised May 15, 2023

Arcadis Project No.:
30121887

Subject:
PCB Area #2 – TW-10-1-4 TSCA Deed Restriction
RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

At PCB Area #2, two samples collected from the interval 10 to 14 feet below ground surface (bgs) contained 1.5 and 11 parts per million (ppm) PCBs. PCB Area #2 has a concrete cover ranging from 1 to 3.5 feet thick. A request will be prepared ***seeking a final closure for-risk-based high occupancy.*** Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

1.1 Surface Cover and Geology

Surface cover at PCB Area #2 consists of approximately 1 to 3.5 feet of concrete in the area of the exceedances. The concrete is underlain by a fine to medium sand down to 18 feet bgs. The water table was encountered at 10 to 12 feet bgs. PCBs were detected in the soil samples collected at the water table at both locations and are associated with the LNAPL impacts.

1.2 PCB Impact and Delineation

At PCB Area #2 a total of 46 soil samples were collected from eight locations for PCB analysis. Two of these soil samples detected PCBs at a concentration greater than 1 ppm. The soil samples collected from boring TW-10-1-4 from 12 to 14 feet bgs detected PCBs at a concentration of 11 ppm and boring SB-10-05 from 10 to 12 feet bgs detected PCBs at a concentration of 1.5 ppm (**Figure 1, Table 1**). Vertical and horizontal delineation of these impacts is detailed below.

1.2.1 Vertical Delineation

- Additional samples collected from SB-10-05 (1 to 3, 4 to 6, 6 to 8, 8 to 10, 12 to 14 and 14 to16 feet bgs) did not detect PCBs.
- Additional samples collected from TW-10-4-1 (8 to 10 and 10 to 12 feet bgs) did not detect PCBs (**Table 1**). Deeper samples were not collected below the water table.

1.2.2 Horizontal Delineation

- PCB impacts are delineated to the north by SB-10-34 (8 to 10, 10 to 12, 12 to 14, and 14 to 16 feet bgs), to the east by SB-10-07 (1 to 3, 4 to 6, 6 to 8, 8 to 10, 10 to 12, and 12 to 14 feet bgs) and SB-10-06 (1 to 3, 4 to 6, 6 to 8, 8 to 10, 10 to 12, 12 to 14, and 14 to 16 feet bgs) and to the south by SB-10-35 (8 to 10, 10 to 12, 12 to 14, and 14 to 17 feet bgs) (**Table 1**).
- At EPA's request two additional borings (SB-10-105 and SB-10-106) were completed. SB-10-105 was co-located with 20-166 and the SB-10-106 was located approximately 30 feet southwest of TW-10-04-01 to further delineate impact. Soil samples were collected from 1 to 3, 4 to 6, 6 to 8, 8 to 10, 10 to 12, 12 to 14, and 14 to 16 ft bgs and submitted for PCB analysis. PCBs were not detected in any of the samples above 1 ppm (**Table 1**).
- PCB impacts are delineated to the west by the former Factory 10 basement, which extends approximately 15 feet bgs. The Factory 10 basement was constructed in 1942. and there is no historical soil data available from below the basement floor to the west of PCB Area #2. The former Factory 10 basement elevation is below the water table. Historic groundwater levels in this area ranged from 10 to 14 ft bgs; however, recent data indicate that groundwater is approximately 6 ft bgs in this area.

Also, 25 soil samples collected from 13 borings completed in the vicinity of PCB Area #2 did not detect PCBs above 1 ppm (**Figure 2**).

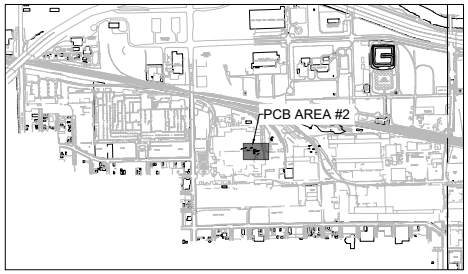
1.3 Conclusion

At PCB Area #2, PCBs were detected at concentrations ranging from 1.5 to 11 ppm from 10 to 14 feet bgs with surface cover that meets the requirements of a TSCA cap per 761.61 (a)(7) and (a)(8). A request will be prepared ***seeking a final closure for risk-based high occupancy***.

In the event of redevelopment in the area, construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\aschilling\ACCDocs\Arcadis\AUS-RACER TRUST-BUICK CITY-FLINT Michigan\Project Files\2022\01-In Progress\01-DWG\2022-RC-SITE PLANS PCB.dwg LAYOUT: 4D SAVED: 11/4/2022 11:00 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 11/4/2022 11:04 AM BY: SCHILLING, ADAM

XREFS: IMAGES: PROJECTNAME: ----
X-SITE BASEFLINT SKETCH 3.65 MSF (002).jpg
X-BDR-RC-LA



Location ID:		SB-10-34	SB-10-34	SB-10-34	SB-10-34
Sample Depth(ft):		8 - 10	10 - 12	12 - 14	14 - 16
Date Collected:	Units	12/01/19	12/01/19	12/01/19	12/01/19
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		SB-10-07	SB-10-07	SB-10-07	SB-10-07	SB-10-07	SB-10-07
Sample Depth(ft):		1 - 3	4 - 6	6 - 8	8 - 10	10 - 12	12 - 14
Date Collected:	Units	09/04/13	09/04/13	09/04/13	09/04/13	09/04/13	09/04/13
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		SB-10-06	SB-10-06	SB-10-06	SB-10-06	SB-10-06	SB-10-06	SB-10-06
Sample Depth(ft):		1 - 3	4 - 6	6 - 8	8 - 10	10 - 12	12 - 14	14 - 16
Date Collected:	Units	09/04/13	09/04/13	09/04/13	09/04/13	09/04/13	09/04/13	09/04/13
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		TW-10-4-1	TW-10-4-1	TW-10-4-1
Sample Depth(ft):		8 - 10	10 - 12	12 - 14
Date Collected:	Units	12/04/13	12/04/13	12/04/13
Total PCBs	mg/kg	0.33 U	0.33 U	11 Y

Location ID:		SB-10-35	SB-10-35	SB-10-35	SB-10-35
Sample Depth(ft):		8 - 10	10 - 12	12 - 14	14 - 17
Date Collected:	Units	12/01/19	12/01/19	12/01/19	12/01/19
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		SB-10-106	SB-10-106	SB-10-106	SB-10-106	SB-10-106	SB-10-106	SB-10-106	SB-10-106
Sample Depth (ft)		1-3	4-6	6-8	8-10	10-12	12-13	13-14	16-18
Date Collected:	Units	10/21/22	10/21/22	10/21/22	10/21/22	10/21/22	10/21/22	10/21/22	10/21/22
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		SB-10-05	SB-10-05	SB-10-05	SB-10-05	SB-10-05	SB-10-05	SB-10-05
Sample Depth(ft):		1 - 3	4 - 6	6 - 8	8 - 10	10 - 12	12 - 14	14 - 16
Date Collected:	Units	09/04/13	09/04/13	09/04/13	09/04/13	09/04/13	09/04/13	09/04/13
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U	0.9	1.5	0.7	0.33 U

Location ID:		SB-10-105	SB-10-105	SB-10-105	SB-10-105	SB-10-105	SB-10-105	SB-10-105
Sample Depth (ft)		1-3	4-6	6-8	8-10	10-12	12-14	14-16
Date Collected:	Units	10/21/22	10/21/22	10/21/22	10/21/22	10/21/22	10/21/22	10/21/22
Total PCBs	mg/kg	0.4	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

SB-10-105
SB-10-34
SB-10-07
SB-10-06
SB-10-05
TW-10-04-1
SB-10-35
SB-10-106

FORMER FACTORY 10
BASEMENT WALL
(APPROX 14 FEET BGS)

LEGEND:

- EXTENT OF PROPOSED PCB AREA RESTRICTION
- LOCATION WHERE PCBS ARE GREATER THAN 1 PPM
- LOCATION WHERE PCBS ARE LESS THAN 1 PPM

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

Y - Elevated reporting limit due to high target detection limit

All results presented in mg/kg.

PCB IMPACTS DETECTED AT A CONCENTRATION OF UP TO 11 PPM

0 80' 160'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

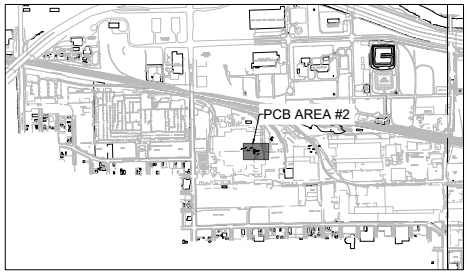
PCB AREA #2 EXCEEDANCE AND DELINEATION LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\aschilling\ACCDocs\Arcadis\AUS-RACER TRUST-BUICK CITY-FLINT Michigan\Project Files\2022\01-In Progress\01-DWG\2022-RC-SITE PLANS PCB.dwg LAYOUT: 4D SAVED: 11/4/2022 11:00 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 11/4/2022 11:04 AM BY: SCHILLING, ADAM

XREFS: IMAGES: PROJECTNAME: ----
X-SITE BASEFLINT SKETCH 3.65 MSF (002).jpg
X-BDR-RC-LA



20-466 (1992)
(0 ft) 0.03 U
(7.5 ft) 0.03 U

20-467 (1992)
(0 - 2 ft) 0.03 U
(5 - 7 ft) 0.03 U

20-275(1992)
(0 ft) 0.03 U
(7.5 ft) 0.03 U

MW-10-12 (2014)
(4 - 6 ft) 0.33 U
(8 - 10 ft) 0.5

20-278 (1992)
(5 - 12 ft) 0.03 U
(13 - 15 ft) 0.03 U

20-169 (1992)
(12.5 - 14.5 ft) 0.03 U
(14.5 - 16.5 ft) 0.03 U

20-279 (1992)
(0 ft) 0.03 U

MW-10-15 (2014)
(1 - 3 ft) 0.33 U
(5.5 - 6 ft) 0.72
(11 - 13) 0.33 U

SB-10-34
SB-10-105
SB-10-07
SB-10-06
SB-10-05
TW-10-04-1
SB-10-35

FORMER FACTORY 10
BASEMENT WALL
(APPROX 14 FEET BGS)

SB-10-106

20-247 (1992)
(5 - 7 ft) 0.03 U
(13 - 15 ft) 0.03 U

SB-10-32 (2019)
(1 - 3 ft) 0.33 U
(7 - 9 ft) 0.33 U
(10-12 ft) 0.33 U

20-248 (1992)
(7.5 - 9.5 ft) 0.03 U
(12.5 - 14.5 ft) 0.03 U

20-145 (1991)
(7.5 - 10 ft) 0.033 U

20-144 (1991)
(7.5 - 10 ft) 0.033 U

LEGEND:

EXTENT OF PROPOSED RESTRICTED AREA

LOCATION WHERE PCBS ARE LESS THAN 1 PPM

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

All results presented in mg/kg.

PCB IMPACTS DETECTED AT A CONCENTRATION OF UP TO 11 PPM

0 80' 160'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

PCB AREA #2
ADDITIONAL PCB DATA

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

Table 1 - PCB Area #2 - Additional Delineation Samples
RACER Buick City, Flint, Michigan

Location ID: / Sample Depth(ft): / Date Collected:	Units	SB-10-05 1 - 3 09/04/13	SB-10-05 4 - 6 09/04/13	SB-10-05 6 - 8 09/04/13	SB-10-05 8 - 10 09/04/13	SB-10-05 10 - 12 09/04/13	SB-10-05 12 - 14 09/04/13	SB-10-05 14 - 16 09/04/13	SB-10-06 1 - 3 09/04/13	SB-10-06 4 - 6 09/04/13	SB-10-06 6 - 8 09/04/13
PCB											
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.9	1.5	0.7	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID: / Sample Depth(ft): / Date Collected:	Units	SB-10-06 8 - 10 09/04/13	SB-10-06 10 - 12 09/04/13	SB-10-06 12 - 14 09/04/13	SB-10-06 14 - 16 09/04/13	SB-10-07 1 - 3 09/04/13	SB-10-07 4 - 6 09/04/13	SB-10-07 6 - 8 09/04/13	SB-10-07 8 - 10 09/04/13	SB-10-07 10 - 12 09/04/13	SB-10-07 12 - 14 09/04/13
PCB											
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID: / Sample Depth(ft): / Date Collected:	Units	SB-10-34 8 - 10 12/01/19	SB-10-34 10 - 12 12/01/19	SB-10-34 12 - 14 12/01/19	SB-10-34 14 - 16 12/01/19	SB-10-35 8 - 10 12/01/19	SB-10-35 10 - 12 12/01/19	SB-10-35 12 - 14 12/01/19	SB-10-35 14 - 17 12/01/19	SB-10-105 1 - 3 10/21/22	SB-10-105 4 - 6 10/21/22
PCB											
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.4	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Table 1 - PCB Area #2 - Additional Delineation Samples
RACER Buick City, Flint, Michigan

Location ID: / Sample Depth(ft): / Date Collected:	Units	SB-10-105 6 - 8 10/21/22	SB-10-105 8 - 10 10/21/22	SB-10-105 10 - 12 10/21/22	SB-10-105 12 - 14 10/21/22	SB-10-105 14 - 16 10/21/22	SB-10-106 1 - 3 10/21/22	SB-10-106 4 - 6 10/21/22	SB-10-106 6 - 8 10/21/22	SB-10-106 8 - 10 10/21/22	SB-10-106 10 - 12 10/21/22
PCB											
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID: / Sample Depth(ft): / Date Collected:	Units	SB-10-106 12 - 13 10/21/22	SB-10-106 13 - 14 10/21/22	SB-10-106 16 - 18 10/21/22	TW-10-4-1 8 - 10 12/04/13	TW-10-4-1 10 - 12 12/04/13	TW-10-4-1 12 - 14 12/04/13
PCB							
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	11 Y
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY

Notes:
mg/kg - microgram per kilogram
U - Analyte not detected. Associated value is the reporting limit.

MEMO

ARCADIS Design & Consultancy for natural and built assets

To:
Grant Trigger

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Chris Peters
Erin Kozak

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From:
Micki M. Maki

Date:
April 6, 2022
Revised May 22, 2023

Arcadis Project No.:
30121887

Subject:
PCB Area #3 – AOI 10-1 Area TSCA Deed Restriction
RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

At PCB Area #3, a portion of historic fill was excavated in 2018/2019 to remove impacts exceeding 25 parts per million (ppm). The top four feet of the excavation were backfilled with clean fill. In 2022 a small area adjacent to the original excavation was completed to remove PCBs over 50 ppm from 1 to 3 feet below ground surface (bgs). Following completion of these excavation activities remaining impacts at PCB Area #3 do not exceed 26 ppm.[1]

Under current conditions this area will be closed as ***closure as risk-based low occupancy***. Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

1.1 Surface Cover and Geology

Surface cover at PCB Area #3 consists primarily of 0.5 to 2.5 foot of concrete, with the exception of the excavation area, and the former railroad tracks. The excavation area is covered with crushed concrete while the railroad tracks are a combination of gravel and topsoil. Surface cover is underlain by fill material consisting of sand, pebbles, slag and metal fragments which is present to approximately 5 feet bgs. Sand is

[1] PCBs were detected at a concentration of 26 ppm at one location from 6 to 8 ft bgs following completion of the initial investigation. This impact will remain in place.

typically present from approximately 5 to 16 feet and is underlain by clay. The water table was encountered at approximately 10 to 12 feet bgs. PCBs were primarily detected in soil samples collected from 4 to 10 feet bgs and are associated with LNAPL impacts.

1.2 PCB Impact and Delineation

At PCB Area #3 approximately 155 soil samples have been collected for PCB analysis. Based on PCB sampling results, in 2018-2019 an excavation was completed at PCB Area #3 in accordance with the EPA approved PCB Soil Removal Interim Measures Work Plan (July 10, 2018). The excavation removed soils greater than 25 ppm for off-site disposal. PCB impacts less than 25 ppm remain in this area between 4 and 10 feet bgs.

Additional delineation work completed after the excavation, identified two additional locations at PCB Area #3 where PCBs are present at concentrations greater than 25 ppm. A sample collected from 6 to 8 feet bgs at SB-10-48 detected PCBs at a concentration of 26 ppm and a sample collected from SB-10-38 from 1 to 3 feet bgs detected PCBs at a concentration of 65 ppm. The shallow PCB detection of 65 ppm at SB-10-38 was excavated in 2022 and disposed of off-site.

At PCB Area #3 impacts are detected from 4 to 12 feet bgs, with the majority of the impacts being identified in the 6 to 8 ft bgs interval. Impacts greater than 1 ppm are presented on **Figure 1,** and the delineation location are presented on **Figure 2**. The vertical and horizontal delineation of these impacts is further detailed below.

1.2.1 Vertical Delineation

- The 12 shallow soil samples collected from the 0 to 2 and 1 to 3 ft bgs intervals at PCB Area #3 did not detected PCBs at a concentration greater than 1 ppm (**Table 1**).
- The top 4 feet of the completed excavation area (**Figure 1**) was backfilled with unimpacted material.
- The impacts in the majority of PCB Area #3 are covered by 1 to 2.5 foot of concrete. However, the completed excavation and the railroad track areas have gravel or topsoil at the surface.

1.2.2 Horizontal Delineation

- The PCB impacts are delineated by 46 samples collected from 17 locations at depths from 1 to 13 ft bgs (**Figure 2, Table 1**).

Also, 24 soil samples collected from nine soil borings completed in the vicinity of PCB Area #3 did not detect PCBs above 1 ppm (**Figure 3**).

1.3 Proposed Restrictions

At PCB Area #3, PCBs are detected at concentrations ranging from 1.3 to 26 ppm. While the majority of the impacts are less than 25 ppm, one sample detected PCBs at a concentration of 26 ppm. a request will be prepared seeking ***closure as risk-based low occupancy.*** In the event of redevelopment in the area, construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

PCB-2.dwg LAYOUT: 4E SAVED: 10/20/2022 9:59 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 5/11/2023 3:44 PM BY: SMALL, BRIAN

Location ID:		SB-10-37	SB-10-37	SB-10-37	SB-10-37	SB-10-37
Sample Depth(ft):		1 - 3	4-6	6-8	8-10	10-13
Date Collected:	Units	12/01/19	12/01/19	12/01/19	12/01/19	12/01/19
Total PCBs	mg/kg	0.33 U	0.33 U	3 Y	0.5	0.33 U

Location ID:		SB-10-08-15	SB-10-08-15	SB-10-08-15	SB-10-08-15
Sample Depth(ft):		1 - 3	4 - 6	6 - 8	8 - 10
Date Collected:	Units	02/26/14	02/26/14	02/26/14	02/26/14
Total PCBs	mg/kg	0.33 U	1.4	7.3 Y	1.1 [1.5]

PCB IMPACTS >1, <25 FROM 4 TO 10 FT BGS IN COMPLETED EXCAVATION AREA

Location ID:		TW-10-08-7	TW-10-08-7	TW-10-08-7
Sample Depth(ft):		4 - 6	8 - 10	10 - 12
Date Collected:	Units	12/04/13	12/04/13	12/04/13
Total PCBs	mg/kg	9 Y	0.33 U	0.33 U

Location ID:		SB-10-19	SB-10-19	SB-10-19	SB-10-19
Sample Depth(ft):		4 - 6	6 - 8	8 - 10	18 - 20
Date Collected:	Units	10/31/14	10/31/14	10/31/14	10/31/14
Total PCBs	mg/kg	0.33 U	19 Y	4.3Y	0.33 U

Location ID:		TW-10-08-2
Sample Depth(ft):		10 - 12
Date Collected:	Units	12/03/13
Total PCBs	mg/kg	7 Y

Location ID:		SB-10-47	SB-10-47
Sample Depth(ft):		1 - 3	4-6
Date Collected:	Units	01/06/20	01/06/20
Total PCBs	mg/kg	0.33 U	5 Y

Location ID:		SB-10-55
Sample Depth(ft):		6-8
Date Collected:	Units	02/25/20
Total PCBs	mg/kg	1.6

Location ID:		SB-10-38	SB-10-38	SB-10-38	SB-10-38
Sample Depth (ft):		4-6	6-8	8-10	10-14
Date Colelcted:	Units	12/1/2019	12/1/2019	12/1/2019	12/1/2019
Total PCBs	mg/kg	13Y	2.2[3Y]	0.33 U	0.33 U

Location ID:		SB-10-45	SB-10-45	SB-10-45
Sample Depth(ft):		1 - 3	4-6	6-8
Date Collected:	Units	01/06/20	01/06/20	01/06/20
Total PCBs	mg/kg	0.4	21 Y	2.9 Y [5.2 Y]

Location ID:		SB-10-48	SB-10-48	SB-10-48
Sample Depth(ft):		1 - 3	4-6	6-8
Date Collected:	Units	01/06/20	01/06/20	01/06/20
Total PCBs	mg/kg	0.4	0.33 U	26 Y

Location ID:		SB-10-59
Sample Depth(ft):		6-8
Date Collected:	Units	02/25/20
Total PCBs	mg/kg	8.3

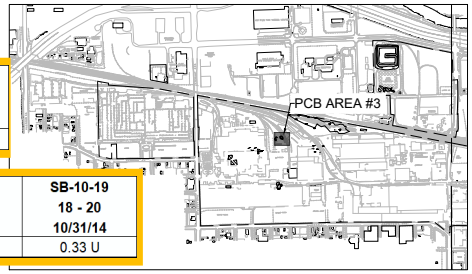
Location ID:		SB-10-53
Sample Depth(ft):		6-8
Date Collected:	Units	01/06/20
Total PCBs	mg/kg	2.5

Location ID:		SB-10-49	SB-10-49	SB-10-49
Sample Depth(ft):		1 - 3	4-6	6-8
Date Collected:	Units	01/06/20	01/06/20	01/06/20
Total PCBs	mg/kg	0.33 U	2.6 Y	2.5 Y

Location ID:		SB-10-51	SB-10-51	SB-10-51
Sample Depth(ft):		1 - 3	4-6	6-8
Date Collected:	Units	01/06/20	01/06/20	01/06/20
Total PCBs	mg/kg	0.33 U	0.7	4.3 Y

Location ID:		SB-10-52	SB-10-52	SB-10-52
Sample Depth(ft):		1 - 3	4-6	6-8
Date Collected:	Units	01/06/20	01/06/20	01/06/20
Total PCBs	mg/kg	0.4	0.33 U	1.3

Location ID:		SB-10-50	SB-10-50	SB-10-50
Sample Depth(ft):		1 - 3	4-6	6-8
Date Collected:	Units	01/06/20	01/06/20	01/06/20
Total PCBs	mg/kg	0.33 U	0.33 U	9 Y



LEGEND:

- EXTENT OF PROPOSED PCB AREA RESTRICTION
- EXTENT OF COMPLETED EXCAVATION
- LOCATION WHERE PCBS ARE GREATER THAN 1 PPM

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

Y - Elevated reporting limit due to high target detection limit

0 40 80

APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61 (c) REQUEST

PCB AREA #3
IMPACTS > 1 PPM

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\BSSmall\ACCDocs\Arcadis\AUS-RACER TRUST-BUICK CITY-FLINT Michigan\Project Files\2022\01-In Progress\01-DWG\RTBC-RC-SITE PLANS PCB-2.dwg LAYOUT: 4E SAVED: 10/20/2022 9:59 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 5/11/2023 3:44 PM BY: SMALL, BRIAN

Location ID:		SB-10-64	SB-10-64	SB-10-64
Sample Depth(ft):		4 - 6	6 - 8	8 - 10
Date Collected:	Units	03/23/20	03/23/20	03/23/20
Total PCBs	mg/kg	0.5	0.8	0.6

Location ID:		SB-10-65	SB-10-65	SB-10-65
Sample Depth(ft):		4 - 6	6 - 8	8 - 10
Date Collected:	Units	03/23/20	03/23/20	03/23/20
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		SB-10-36	SB-10-36	SB-10-36	SB-10-36	SB-10-36
Sample Depth(ft):		1-3	4-6	6-8	8-10	10-12
Date Collected:	Units	12/01/19	12/01/19	12/01/19	12/01/19	12/01/19
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U	0.36	0.36

Location ID:		TW-10-08-5	TW-10-08-5	TW-10-08-5
Sample Depth(ft):		4 - 6	8 - 10	10 - 12
Date Collected:	Units	12/03/13	12/03/13	12/03/13
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		SB-10-16	SB-10-16	SB-10-16	SB-10-16
Sample Depth(ft):		4 - 6	6 - 8	8 - 10	11 - 13
Date Collected:	Units	10/29/14	10/30/14	10/30/14	10/30/14
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		SB-10-18	SB-10-18	SB-10-18	SB-10-18
Sample Depth(ft):		4 - 6	6 - 8	8 - 10	10 - 11
Date Collected:	Units	10/30/14	10/30/14	10/30/14	10/30/14
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		SB-10-09	SB-10-09	SB-10-09	SB-10-09
Sample Depth(ft):		4 - 6	6 - 8	8 - 10	10 - 12
Date Collected:	Units	10/14/13	10/14/13	10/14/13	10/14/13
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		SB-10-60
Sample Depth(ft):		6-8
Date Collected:	Units	02/25/20
Total PCBs	mg/kg	0.33 U

Location ID:		SB-10-66	SB-10-66	SB-10-66
Sample Depth(ft):		4 - 6	6 - 8	8 - 10
Date Collected:	Units	03/23/20	03/23/20	03/23/20
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		SB-10-73	SB-10-73	SB-10-73
Sample Depth(ft):		4 - 6	6 - 8	8 - 10
Date Collected:	Units	03/23/20	03/23/20	03/23/20
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		SB-10-72	SB-10-72	SB-10-72
Sample Depth(ft):		4 - 6	6 - 8	8 - 10
Date Collected:	Units	03/23/20	03/23/20	03/23/20
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		SB-10-54
Sample Depth(ft):		6-8
Date Collected:	Units	01/06/20
Total PCBs	mg/kg	0.33 U

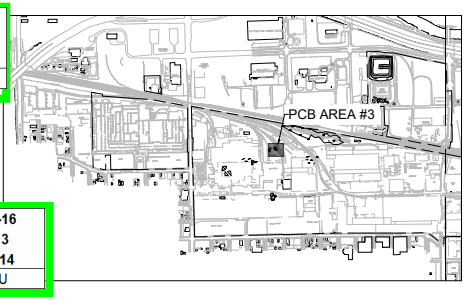
Location ID:		SB-10-56
Sample Depth(ft):		6-8
Date Collected:	Units	02/25/20
Total PCBs	mg/kg	0.33 U

Location ID:		SB-10-57
Sample Depth(ft):		6-8
Date Collected:	Units	02/25/20
Total PCBs	mg/kg	0.33 U

Location ID:		MW-10-13	MW-10-13
Sample Depth(ft):		1 - 3	8 - 10
Date Collected:	Units	01/30/14	01/30/14
Total PCBs	mg/kg	0.33 U	0.33 U

Location ID:		MW-10-14	MW-10-14
Sample Depth(ft):		4 - 6	9 - 11
Date Collected:	Units	01/30/14	01/30/14
Total PCBs	mg/kg	0.33 U	0.33 U

Location ID:		SB-10-74	SB-10-74	SB-10-74
Sample Depth(ft):		4 - 6	6 - 8	8 - 10
Date Collected:	Units	03/23/20	03/23/20	03/23/20
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U



LEGEND:

EXTENT OF PROPOSED PCB AREA RESTRICTION

EXTENT OF COMPLETED EXCAVATION

LOCATION WHERE PCBS ARE LESS THAN 1 PPM

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

TW-10-08-6, SB-10-08, TW-10-08-5, TW-10-08-3, TW-10-08-2, TW-10-08-12, TW-10-08-4, SB-10-36, SB-10-16, 20-170, SB-10-18, SB-10-08-8, TW-10-08-7, SB-10-19, TW-10-08-1, TW-10-08-17, SB-10-47, SB-10-65, TW-10-08-11, SB-10-08-15, 20-273, TW-10-20, SB-10-08-14, SB-10-08-10, SB-10-08-13, SB-10-37, SB-10-08-9, TW-10-21, SB-10-55, SB-10-64, SB-10-44, SB-10-09, SB-10-82, SB-10-38, SB-10-60, SB-10-46, SB-10-81, SB-10-53, TW-10-08-16, SB-10-49, SB-10-80, SB-10-45, SB-10-54, SB-10-04, 20-277, SB-10-51, SB-10-48, SB-10-66, SB-10-59, SB-10-56, SB-10-50, SB-10-52, SB-10-57, SB-10-67, SB-10-72, SB-10-58, SB-10-74, MW-10-14, MW-10-13, SB-10-73

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61 (c) REQUEST

PCB AREA #3 DELINEATION POINTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\BSSmall\ACCDocs\Arcadis\AUS-RACER TRUST-BUICK CITY-FLINT Michigan\Project Files\2022\01-In Progress\01-DWG\RTBC-RC-SITE PLANS PCB-2.dwg LAYOUT: 4E SAVED: 10/20/2022 9:59 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 5/11/2023 3:44 PM BY: SMALL, BRIAN

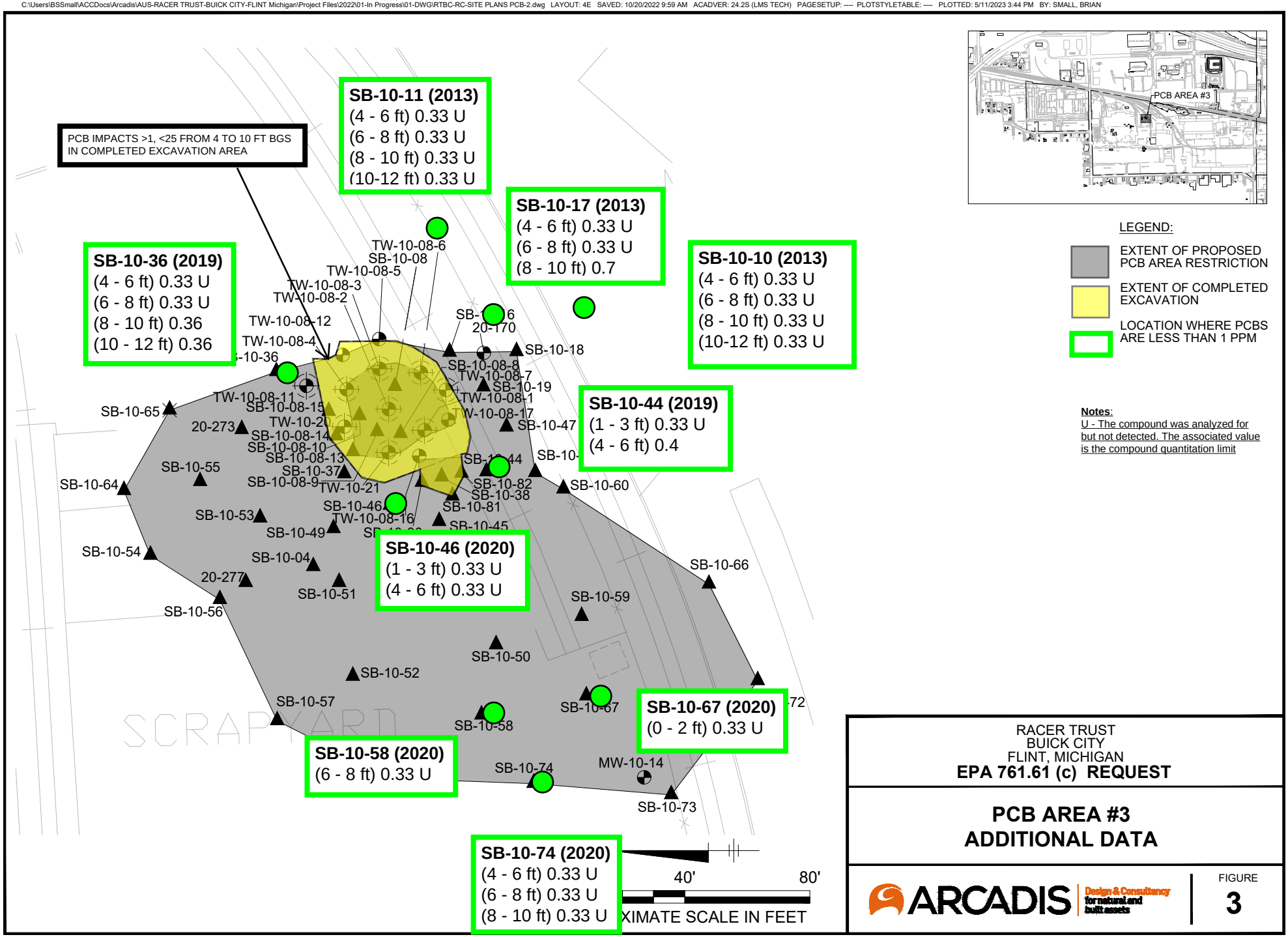


Table 1 - PCB Area #3 Delineation Data Summary
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Sample Depth(ft): / Date Collected:	Units	SB-10-09 4 - 6 10/14/13	SB-10-09 6 - 8 10/14/13	SB-10-09 8 - 10 10/14/13	SB-10-09 10 - 12 10/14/13	SB-10-08-15 1 - 3 02/26/14	SB-10-08-15 4 - 6 02/26/14	SB-10-08-15 6 - 8 02/26/14	SB-10-08-15 8 - 10 02/26/14	SB-10-16 4 - 6 10/29/14	SB-10-16 6 - 8 10/30/14	SB-10-16 8 - 10 10/30/14	SB-10-16 11 - 13 10/30/14
PCB													
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	1 UY	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	1 UY	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	1 UY	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	1 UY	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	1 UY	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	1.4	7.3 Y	1.1 [1.5]	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	1 UY	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U

Location ID: / Sample Depth(ft): / Date Collected:	Units	SB-10-18 4 - 6 10/30/14	SB-10-18 6 - 8 10/30/14	SB-10-18 8 - 10 10/30/14	SB-10-18 10 - 11 10/30/14	SB-10-19 4 - 6 10/31/14	SB-10-19 6 - 8 10/31/14	SB-10-19 8 - 10 10/31/14	SB-10-19 18 - 20 10/31/14	SB-10-36 1 - 3 12/01/19	SB-10-36 4 - 6 12/01/19	SB-10-36 6 - 8 12/01/19	SB-10-36 8 - 10 12/01/19
PCB													
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	3 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	3 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	3 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	3 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	3 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	19 Y	4.3 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.36
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	3 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID: / Sample Depth(ft): / Date Collected:	Units	SB-10-36 10 - 12 12/01/19	SB-10-37 1 - 3 12/01/19	SB-10-37 4 - 6 12/01/19	SB-10-37 6 - 8 12/01/19	SB-10-37 8 - 10 12/01/19	SB-10-37 10 - 13 12/01/19	SB-10-38 4 - 6 12/01/19	SB-10-38 6 - 8 12/01/19	SB-10-38 8 - 10 12/01/19	SB-10-38 10 - 14 12/01/19	SB-10-45 1 - 3 01/06/20	SB-10-45 4 - 6 01/06/20
PCB													
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.7 UY	0.33 U	0.33 U	2 UY	0.33 U [0.5 UY]	0.33 U	0.33 U	0.33 U	7 UY
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.7 UY	0.33 U	0.33 U	2 UY	0.33 U [0.5 UY]	0.33 U	0.33 U	0.33 U	7 UY
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.7 UY	0.33 U	0.33 U	2 UY	0.33 U [0.5 UY]	0.33 U	0.33 U	0.33 U	7 UY
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.7 UY	0.33 U	0.33 U	2 UY	0.33 U [0.5 UY]	0.33 U	0.33 U	0.33 U	7 UY
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.7 UY	0.33 U	0.33 U	2 UY	0.33 U [0.5 UY]	0.33 U	0.33 U	0.33 U	7 UY
Aroclor-1254 (PCB-1254)	mg/kg	0.36	0.33 U	0.33 U	3 Y	0.5	0.33 U	13 Y	2.2 [3 Y]	0.33 U	0.33 U	0.4	21 Y
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.7 UY	0.33 U	0.33 U	2 UY	0.33 U [0.5 UY]	0.33 U	0.33 U	0.33 U	7 UY

Notes:
mg/kg - milligrams per kilogram
ft bgs - feet below ground surface
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
Y- Elevated reporting limit due to high target concentration

Table 1 - PCB Area #3 Delineation Data Summary
RACER Trust, Buick City Site, Flint, Michigan

Location ID:		SB-10-45	SB-10-46	SB-10-46	SB-10-47	SB-10-47	SB-10-48	SB-10-48	SB-10-48	SB-10-49	SB-10-49	SB-10-49	SB-10-50
Sample Depth(ft):		6 - 8	1 - 3	4 - 6	1 - 3	4 - 6	1 - 3	4 - 6	6 - 8	1 - 3	4 - 6	6 - 8	1 - 3
Date Collected:	Units	01/06/20	01/06/20	01/06/20	01/06/20	01/06/20	01/06/20	01/06/20	01/06/20	01/06/20	01/06/20	01/06/20	01/06/20
PCB													
Aroclor-1016 (PCB-1016)	mg/kg	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	2 UY	0.33 U	0.33 U	5 UY	0.33 U	0.6 UY	0.6 UY	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	2 UY	0.33 U	0.33 U	5 UY	0.33 U	0.6 UY	0.6 UY	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	2 UY	0.33 U	0.33 U	5 UY	0.33 U	0.6 UY	0.6 UY	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	2 UY	0.33 U	0.33 U	5 UY	0.33 U	0.6 UY	0.6 UY	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	2 UY	0.33 U	0.33 U	5 UY	0.33 U	0.6 UY	0.6 UY	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	2.9 Y [5.2 Y]	0.33 U	0.33 U	0.33 U	5 Y	0.4	0.33 U	26 Y	0.33 U	2.6 Y	2.5 Y	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	2 UY	0.33 U	0.33 U	5 UY	0.33 U	0.6 UY	0.6 UY	0.33 U

Location ID:		SB-10-50	SB-10-50	SB-10-51	SB-10-51	SB-10-51	SB-10-52	SB-10-52	SB-10-52	SB-10-53	SB-10-54	SB-10-55	SB-10-56
Sample Depth(ft):		4 - 6	6 - 8	1 - 3	4 - 6	6 - 8	1 - 3	4 - 6	6 - 8	6 - 8	6 - 8	6 - 8	6 - 8
Date Collected:	Units	01/06/20	01/06/20	01/06/20	01/06/20	01/06/20	01/06/20	01/06/20	01/06/20	01/06/20	01/06/20	02/25/20	02/25/20
PCB													
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	2 UY	0.33 U	0.33 U	0.7 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	2 UY	0.33 U	0.33 U	0.7 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	2 UY	0.33 U	0.33 U	0.7 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	2 UY	0.33 U	0.33 U	0.7 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	2 UY	0.33 U	0.33 U	0.7 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	9 Y	0.33 U	0.7	4.3 Y	0.4	0.33 U	1.3	2.5	0.33 U	1.6	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	2 UY	0.33 U	0.33 U	0.7 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		SB-10-57	SB-10-58	SB-10-59	SB-10-60	SB-10-64	SB-10-64	SB-10-64	SB-10-65	SB-10-65	SB-10-65	SB-10-66
Sample Depth(ft):		6 - 8	6 - 8	6 - 8	6 - 8	4 - 6	6 - 8	8 - 10	4 - 6	6 - 8	8 - 10	4 - 6
Date Collected:	Units	02/25/20	02/25/20	02/25/20	02/25/20	03/23/20	03/23/20	03/23/20	03/23/20	03/23/20	03/23/20	03/23/20
PCB												
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	2 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	2 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	2 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	2 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	2 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	8.3 Y	0.33 U	0.5	0.8	0.6	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	2 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U

Notes:
mg/kg - milligrams per kilogram
ft bgs - feet below ground surface
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
Y- Elevated reporting limit due to high target concentration

Table 1 - PCB Area #3 Delineation Data Summary
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Sample Depth(ft): / Date Collected:	Units	SB-10-66 6 - 8 03/23/20	SB-10-66 8 - 10 03/23/20	SB-10-72 4 - 6 03/23/20	SB-10-72 6 - 8 03/23/20	SB-10-72 8 - 10 03/23/20	SB-10-73 4 - 6 03/23/20	SB-10-73 6 - 8 03/23/20	SB-10-73 8 - 10 03/23/20	SB-10-74 4 - 6 03/23/20	SB-10-74 6 - 8 03/23/20	SB-10-74 8 - 10 03/23/20	TW-10-08-2 10 - 12 12/03/13
PCB													
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	7 Y
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1 UY

Location ID: / Sample Depth(ft): / Date Collected:	Units	TW-10-08-7 4 - 6 12/04/13	TW-10-08-7 8 - 10 12/04/13	TW-10-08-7 10 - 12 12/04/13
PCB				
Aroclor-1016 (PCB-1016)	mg/kg	1 UY	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	1 UY	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	1 UY	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	1 UY	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	1 UY	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	9 Y	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	1 UY	0.33 U	0.33 U

Notes:
mg/kg - milligrams per kilogram
ft bgs - feet below ground surface
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
Y- Elevated reporting limit due to high target concentration

MEMO

ARCADIS Design & Consultancy for natural and built assets

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From:
Micki M. Maki

Date:
April 6, 2022
Revised May 15, 2023

Arcadis Project No.:
30121887

Subject:
PCB Area #4 – AOI 05-5 TSCA Deed Restriction
RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

At PCB Area #4, soil samples detected PCBs over 1 part per million (ppm) (maximum detection of 17 ppm) at four locations between 11 and 17 feet below ground surface (bgs). Surface cover at PCB Area #4 consists primarily of 1 to 3.5 feet of concrete with the exception of the former basement area (northeastern corner of area), where surface cover is gravel. However, PCB impacts are beneath the 2-foot thick concrete basement floor in this area. Consequently, construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants**.**

As there is a minimum of 10 feet of cover, a request will be prepared ***seeking a final closure for risk-based high occupancy***.

1.1 Surface Cover and Geology

Surface cover at PCB Area #4 consists of 1 to 3.5 feet of concrete, which is underlain by sand. On the southern portion of the area a clay layer is present from approximately 6 to 9.5 feet below ground surface (feet bgs) and silt at approximately 15 feet bgs. The water table is encountered at approximately 14 feet bgs. PCB impacts are associated with the LNAPL present at PCB Area #4.

1.2 PCB Impact and Delineation

At PCB Area #4 a total of 62 soil samples were submitted for PCB analysis. Eight samples collected from four locations detected PCBs at a concentration greater than 1 ppm as detailed below and presented on **Figure 1, Table 1**. Vertical and horizontal delineation of these impacts is detailed below.

1.2.1 Vertical Delineation

- The PCB detection at TW-05-05-1 is delineated by samples collected from 9 to 11, 11 to 13, 15 to 17 and 18 to 20 feet bgs.
- The PCB detections at TW-05-05-2 are delineated by samples collected from 9 to 11 and 18 to 20 feet bgs.
- The PCB detections at TW-05-05-11 are delineated by a sample collected from 11 to 13 feet bgs.

1.2.2 Horizontal Delineation

- The PCB impacts are delineated to the east by samples collected from TW-05-05-07 (11 to 13, 13 to 15, and 15 to 17 feet bgs), TW-05-05-08 (11 to 13, 13 to 15, and 15 to 17 feet bgs), TW-05-05-09 (11 to 13, 13 to 15, and 15 to 17 feet bgs), SB-05-05 (1 to 3, 4 to 6, 6 to 8, 8 to 10, 10 to 12, 12 to 14, and 14 to 16), and TW-05-05-10 (11 to 13, 13 to 15, and 15 to 17 feet bgs).
- The PCB impacts are delineated to the south by samples collected from SB-05-05-20 (11 to 13, 13 to 15, and 15 to 17 feet bgs) and SB-05-05-19 (11 to 13, 13 to 15, and 15 to 17 feet bgs).
- The PCB impacts are delineated to the west by samples collected from SB-05-05-18 (11 to 13, 13 to 15, and 15 to 17 feet bgs), TW-05-05-13 (11 to 13, 13 to 15, and 15 to 17 feet bgs), and TW-05-05-14 (11 to 13, 13 to 15, and 15 to 17 feet bgs).
- The PCB impacts are delineated to the north by samples collected from TW-05-05-06 (11 to 12, 14 to 15, and 15 to 17 feet bgs).

Also, 22 soil samples collected from nine borings completed in the vicinity of PCB Area #1 did not detect PCBs (**Figure 2**).

1.3 Proposed Restrictions

At PCB Area #4, PCBs were detected at concentrations ranging from 1.1 to 17 ppm from 11 and 17 feet bgs. This area contains a cover that meets the requirements of a TSCA cap per 761.61 (a)(7) and (a)(8), either at the surface or above the impact (basement area). Consequently, construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants**.** Consequently, under current conditions construction can proceed down to a depth of 10 feet bgs. As there is a minimum of 10 feet of cover, a request will be prepared ***seeking a final closure for risk-based high occupancy.***

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
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XREFS: IMAGES: PROJECTNAME: ----

Location ID:		TW-05-05-06	TW-05-05-06	TW-05-05-06
Sample Depth(ft):		11 - 12	14 - 15	15 - 17
Date Collected:	Units	11/05/14	11/05/14	11/05/14
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		TW-05-05-1	TW-05-05-1	TW-05-05-1	TW-05-05-1	TW-05-05-1
Sample Depth(ft):		9 - 11	11 - 13	13 - 15	15 - 17	18 - 20
Date Collected:	Units	01/16/14	01/16/14	01/16/14	01/16/14	01/16/14
Total PCBs	mg/kg	0.33 U	1 UX	10 Y	0.33 U	0.33 U

Location ID:		TW-05-05-07	TW-05-05-07	TW-05-05-07
Sample Depth(ft):		11 - 13	13 - 15	15 - 17
Date Collected:	Units	11/05/14	11/05/14	11/05/14
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		TW-05-05-08	TW-05-05-08	TW-05-05-08
Sample Depth(ft):		11 - 13	13 - 15	15 - 17
Date Collected:	Units	11/05/14	11/05/14	11/05/14
Total PCBs	mg/kg	2 UX	1 Y	0.33 U

Location ID:		TW-05-05-09	TW-05-05-09	TW-05-05-09
Sample Depth(ft):		11 - 13	13 - 15	15 - 17
Date Collected:	Units	11/05/14	11/05/14	11/05/14
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		SB-05-05	SB-05-05	SB-05-05	SB-05-05	SB-05-05	SB-05-05	SB-05-05
Sample Depth(ft):		1 - 3	4 - 6	6 - 8	8 - 10	10 - 12	12 - 14	14 - 16
Date Collected:	Units	09/03/13	09/03/13	09/03/13	09/03/13	09/03/13	09/03/13	09/03/13
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		TW-05-05-2	TW-05-05-2	TW-05-05-2	TW-05-05-2	TW-05-05-2
Sample Depth(ft):		9 - 11	11 - 13	13 - 15	15 - 17	18 - 20
Date Collected:	Units	01/16/14	01/16/14	01/16/14	01/16/14	01/16/14
Total PCBs	mg/kg	0.33 U	12 Y	4.7 Y	3.4 Y	0.33 U

Location ID:		TW-05-05-10	TW-05-05-10	TW-05-05-10
Sample Depth(ft):		11 - 13	13 - 15	15 - 17
Date Collected:	Units	11/05/14	11/05/14	11/05/14
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		SB-05-05-20	SB-05-05-20	SB-05-05-20
Sample Depth(ft):		11-13	13-15	15-17
Date Collected:	Units	12/02/19	12/02/19	12/02/19
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		TW-05-05-11	TW-05-05-11	TW-05-05-11
Sample Depth(ft):		11 - 13	13 - 15	15 - 17
Date Collected:	Units	11/06/14	11/06/14	11/06/14
Total PCBs	mg/kg	0.6	17 Y	1.1

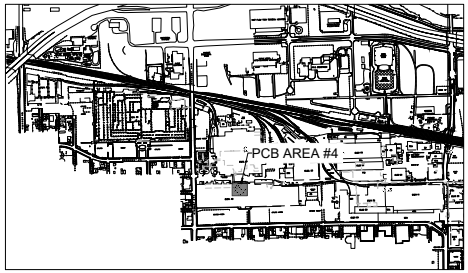
Location ID:		SB-05-05-19	SB-05-05-19	SB-05-05-19
Sample Depth(ft):		11-13	13-15	15-17
Date Collected:	Units	12/02/19	12/02/19	12/02/19
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		TW-05-05-12	TW-05-05-12	TW-05-05-12
Sample Depth(ft):		11 - 13	13 - 15	15 - 17
Date Collected:	Units	11/06/14	11/06/14	11/06/14
Total PCBs	mg/kg	6 Y	0.33 U	2.5 Y [2.7 Y]

Location ID:		TW-05-05-14	TW-05-05-14	TW-05-05-14
Sample Depth(ft):		11 - 13	13 - 15	15 - 17
Date Collected:	Units	11/06/14	11/06/14	11/06/14
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		TW-05-05-13	TW-05-05-13	TW-05-05-13
Sample Depth(ft):		11 - 13	13 - 15	15 - 17
Date Collected:	Units	11/06/14	11/06/14	11/06/14
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		SB-05-05-18	SB-05-05-18	SB-05-05-18
Sample Depth(ft):		11-13	13-15	15-17
Date Collected:	Units	12/02/19	12/02/19	12/02/19
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U



LEGEND:

- EXTENT OF PROPOSED RESTRICTED AREA
- LOCATIONS WHERE PCBS ARE GREATER THAN 1 PPM
- LOCATIONS WHERE PCBS ARE LESS THAN 1 PPM

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

X - Elevated reporting limit due to matrix interference

Y - Elevated reporting limit due to high target detection limit

0 40' 80'

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUESTS

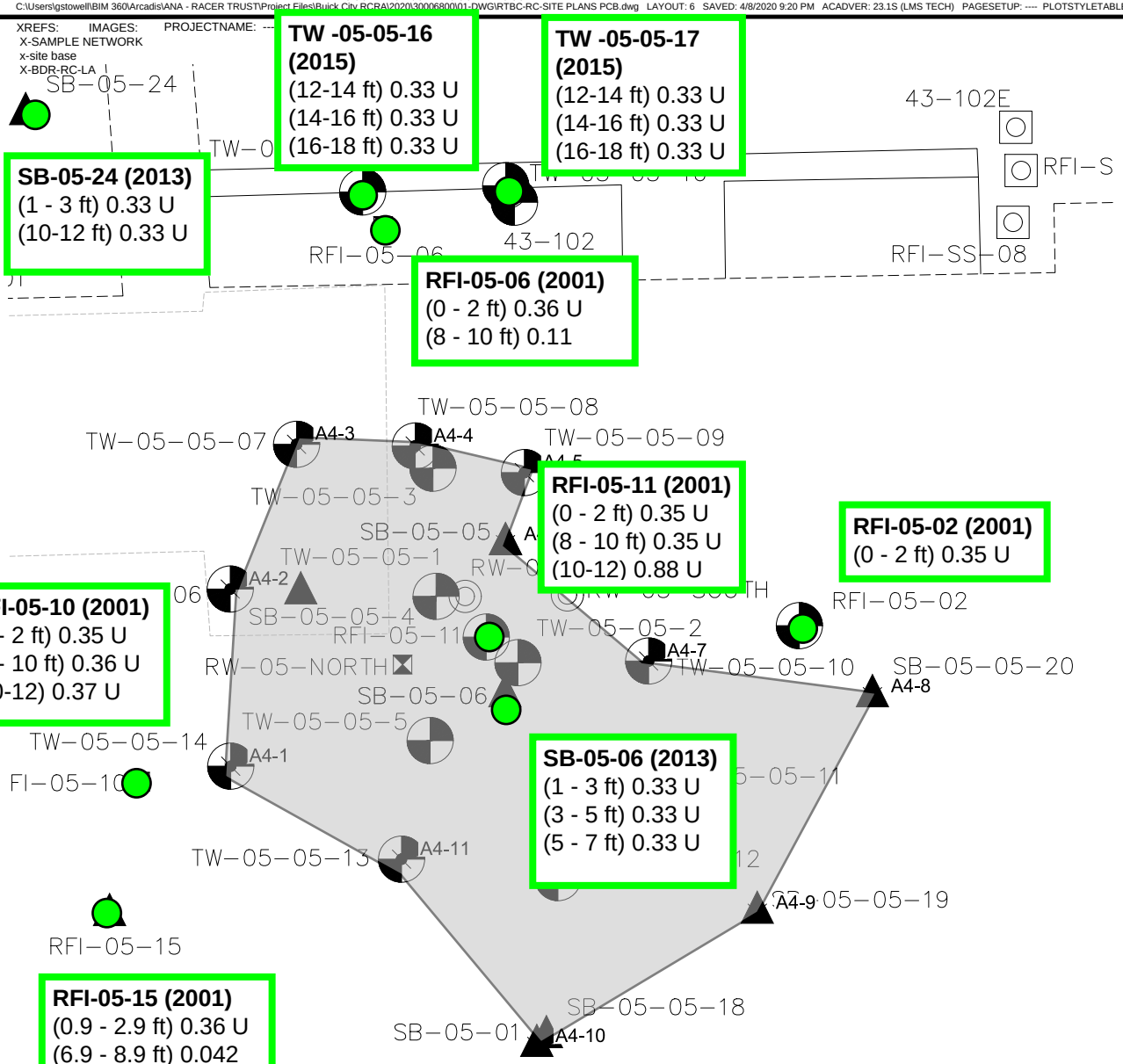
PCB AREA #4
EXCEEDANCE AND DELINEATION POINTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\gstowell\BIM 360\Arcadis\ANA - RACER TRUST\Project Files\Buick City RCRA\2020\30006800\01-DWG\RTBC-RC-SITE PLANS PCB.dwg LAYOUT: 6 SAVED: 4/8/2020 9:20 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 6/3/2020 2:27 PM BY: STOWELL, GARY

XREFS: IMAGES: PROJECTNAME: ---
X-SAMPLE NETWORK
x-site base
X-BDR-RC-LA



TW -05-05-16 (2015)
(12-14 ft) 0.33 U
(14-16 ft) 0.33 U
(16-18 ft) 0.33 U

TW -05-05-17 (2015)
(12-14 ft) 0.33 U
(14-16 ft) 0.33 U
(16-18 ft) 0.33 U

SB-05-24 (2013)
(1 - 3 ft) 0.33 U
(10-12 ft) 0.33 U

RFI-05-06 (2001)
(0 - 2 ft) 0.36 U
(8 - 10 ft) 0.11

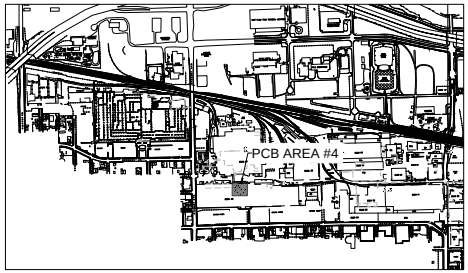
RFI-05-11 (2001)
(0 - 2 ft) 0.35 U
(8 - 10 ft) 0.35 U
(10-12) 0.88 U

RFI-05-02 (2001)
(0 - 2 ft) 0.35 U

RFI-05-10 (2001)
(0 - 2 ft) 0.35 U
(8 - 10 ft) 0.36 U
(10-12) 0.37 U

SB-05-06 (2013)
(1 - 3 ft) 0.33 U
(3 - 5 ft) 0.33 U
(5 - 7 ft) 0.33 U

RFI-05-15 (2001)
(0.9 - 2.9 ft) 0.36 U
(6.9 - 8.9 ft) 0.042



LEGEND:

EXTENT OF PROPOSED PCB AREA RESTRICTION

LOCATION WHERE PCBS ARE LESS THAN 1 PPM

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

X - Elevated reporting limit due to matrix interference

Y - Elevated reporting limit due to high target detection limit

0 40' 80'

APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

PCB AREA #4
ADDITIONAL DATA

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

Table 1 - PCB Area # 4 Delineation Data Summary
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Sample Depth(ft BGS): / Date Collected:	Units	SB-05-05 1 - 3 09/03/13	SB-05-05 4 - 6 09/03/13	SB-05-05 6 - 8 09/03/13	SB-05-05 8 - 10 09/03/13	SB-05-05 10 - 12 09/03/13	SB-05-05 12 - 14 09/03/13	SB-05-05 14 - 16 09/03/13	SB-05-05-18 11 - 13 12/02/19
PCB									
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]

Location ID: / Sample Depth(ft BGS): / Date Collected:	Units	SB-05-05-18 13 - 15 12/02/19	SB-05-05-18 15 - 17 12/02/19	SB-05-05-18 17 - 19 12/02/19	SB-05-05-19 11 - 13 12/02/19	SB-05-05-19 13 - 15 12/02/19	SB-05-05-19 15 - 17 12/02/19	SB-05-05-19 17 - 19 12/02/19	SB-05-05-20 11 - 13 12/02/19
PCB									
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID: / Sample Depth(ft BGS): / Date Collected:	Units	SB-05-05-20 13 - 15 12/02/19	SB-05-05-20 15 - 17 12/02/19	SB-05-05-20 17 - 19 12/02/19	TW-05-05-1 9 - 11 01/16/14	TW-05-05-1 11 - 13 01/16/14	TW-05-05-1 13 - 15 01/16/14	TW-05-05-1 15 - 17 01/16/14	TW-05-05-1 18 - 20 01/16/14
PCB									
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	1 UX	2 UY	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	1 UX	2 UY	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	1 UX	2 UY	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	1 UX	10 Y	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	1 UX	2 UY	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	1 UX	2 UY	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	1 UX	2 UY	0.33 U	0.33 U

Notes:
mg/kg - milligrams per kilogram
ft bgs - feet below ground surface
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
X - There is an elevated reporting limit due to matrix interference.
Y - There is an elevated reporting limit due to high target detection limit.

Table 1 - PCB Area # 4 Delineation Data Summary
RACER Trust, Buick City Site, Flint, Michigan

Location ID:		TW-05-05-2	TW-05-05-2	TW-05-05-2	TW-05-05-2	TW-05-05-2	TW-05-05-06	TW-05-05-06	TW-05-05-06
Sample Depth(ft BGS):		9 - 11	11 - 13	13 - 15	15 - 17	18 - 20	11 - 12	14 - 15	15 - 17
Date Collected:	Units	01/16/14	01/16/14	01/16/14	01/16/14	01/16/14	11/05/14	11/05/14	11/05/14
PCB									
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	2 UY	0.6 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	2 UY	0.6 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	2 UY	0.6 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	12 Y	4.7 Y	3.4 Y	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	2 UY	0.6 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	2 UY	0.6 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	2 UY	0.6 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		TW-05-05-07	TW-05-05-07	TW-05-05-07	TW-05-05-08	TW-05-05-08	TW-05-05-08	TW-05-05-09	TW-05-05-09
Sample Depth(ft BGS):		11 - 13	13 - 15	15 - 17	11 - 13	13 - 15	15 - 17	11 - 13	13 - 15
Date Collected:	Units	11/05/14	11/05/14	11/05/14	11/05/14	11/05/14	11/05/14	11/05/14	11/05/14
PCB									
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	2 UX	1 UY	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	2 UX	1 UY	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	2 UX	1 UY	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	2 UX	1 Y	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	2 UX	1 UY	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	2 UX	1 UY	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	2 UX	1 UY	0.33 U	0.33 U	0.33 U

Location ID:		TW-05-05-09	TW-05-05-10	TW-05-05-10	TW-05-05-10	TW-05-05-11	TW-05-05-11	TW-05-05-11	TW-05-05-12
Sample Depth(ft BGS):		15 - 17	11 - 13	13 - 15	15 - 17	11 - 13	13 - 15	15 - 17	11 - 13
Date Collected:	Units	11/05/14	11/05/14	11/05/14	11/05/14	11/06/14	11/06/14	11/06/14	11/06/14
PCB									
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	3 UY	0.33 U	1 UY
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	3 UY	0.33 U	1 UY
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	3 UY	0.33 U	1 UY
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.6	17 Y	1.1	6 Y
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	3 UY	0.33 U	1 UY
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	3 UY	0.33 U	1 UY
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	3 UY	0.33 U	1 UY

Notes:
mg/kg - milligrams per kilogram
ft bgs - feet below ground surface
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
X - There is an elevated reporting limit due to matrix interference.
Y - There is an elevated reporting limit due to high target detection limit.

Table 1 - PCB Area # 4 Delineation Data Summary
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	TW-05-05-12 13 - 15 11/06/14	TW-05-05-12 15 - 17 11/06/14	TW-05-05-13 11 - 13 11/06/14	TW-05-05-13 13 - 15 11/06/14	TW-05-05-13 15 - 17 11/06/14	TW-05-05-14 11 - 13 11/06/14	TW-05-05-14 13 - 15 11/06/14	TW-05-05-14 15 - 17 11/06/14
PCB									
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	2.5 Y [2.7 Y]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.4	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.6 UY [0.6 UY]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Notes:
mg/kg - milligrams per kilogram
ft bgs - feet below ground surface
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
X - There is an elevated reporting limit due to matrix interference.
Y - There is an elevated reporting limit due to high target detection limit.

MEMO

ARCADIS Design & Consultancy for natural and built assets

To:

Grant Trigger

Copies:

Erin Kozak

Chris Peters

Arcadis of Michigan, LLC
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Suite 500
Novi
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Tel 248 994 2240
Fax 248 994 2241

From:

Micki M. Maki

Date:

April 6, 2022

Revised May 15, 2023

Arcadis Project No.:

30121887

Subject:

PCB Area #5 – AOI 05-1 TSCA Deed Restriction

RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

At PCB Area #5, a portion of historic fill was excavated in 2018/2019 to remove impacts exceeding 25 parts per million (ppm). The top six feet of the excavation were backfilled with overburden and clean fill. After the completion of the excavation activities additional delineation was completed. Currently PCBs are detected at 27 locations at PCB Area #5 from 3 to 17 feet below ground surface (bgs). One sample detected PCBs over 50 ppm from 15 to 17 feet bgs and a second location detected PCBs at 28 ppm from 3 to 5 feet bgs.

Under current conditions a ***risk-based low occupancy*** closure will be submitted requesting a variance on cap requirements. Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

In the event building construction is completed with installation of a cap in accordance with 40 CFR §761.61(a)(7) *[6 inches of concrete or 10" of properly compacted soil]* a request will be submitted to ***modify to risk-based high occupancy on the condition the cap remains in place.***

1.1 Surface Cover and Geology

The western portion of PCB Area #5 is located beneath the former Factory 05 building slab where surface cover consists primarily of 1 to 2 feet concrete. In the eastern portion of PCB Area #5 the surface cover is gravel and topsoil. The surface cover is underlain by fill material consisting of sand, gravel, and debris present to approximate 6 feet bgs. The fill is underlain by sand, silt, and clay and the water table was encountered at 6 to 9 feet bgs. PCB impacts in soil samples at PCB Area #5 are associated with the LNAPL in this area.

Note that the former Factory 05 building slab is an elevated slab approximately 3 feet above ground surface.

1.2 PCB Impact and Delineation

Delineation at PCB Area #5 consisted of advancing 96 borings and analyzing 327 soil samples. Based on the PCB sampling results, in 2018-2019 an excavation was completed at PCB Area #5 in accordance with the EPA approved PCB Soil Removal Interim Measures Work Plan (July 10, 2018). The excavation targeted soils greater than 25 ppm which were excavated and disposed of off-site.

Additional delineation work completed after the excavation identified two additional locations at PCB Area #5 where PCBs were present at concentrations greater than 25 ppm. A sample collected from 3 to 5 feet bgs at SB-DH-RW-1-30 detected PCBs at a concentration of 28 ppm and a sample collected from SB-DH-RW-1-27 from 15 to 17 feet bgs detected PCBs at a concentration of 61 ppm.

At PCB Area #5 impacts range from 3 to 17 feet bgs. Impacts in the northern portion of PCB Area #5 are typically shallower (3 to 9 feet bgs), while impacts in the southern and western portion of the area are typically deeper (9 to 17 feet bgs).

The locations where PCB impacts are detected at a concentration greater than 1 ppm are presented on **Figure 1** and the associated data are presented in **Table 1** and delineation data are presented on **Figure 2**. The vertical and horizontal delineation of these impacts is further detailed below.

1.2.1 Vertical Delineation

- Eleven of the 14 shallow soil samples collected from the 1 to 3 and 3 to 5 ft bgs intervals at PCB Area #5 did not detect PCBs at a concentration greater than 1 ppm. The shallow samples that detected PCBs greater than 1 ppm were detected at concentrations from 5 to 28 ppm.
- In the completed excavation area (**Figure 1**), PCBs greater than 25 ppm were removed and sent offsite for disposal. The top 6 feet of the excavation were backfilled with unimpacted material.
- The impacts in the western portion of PCB Area #5 are covered by 1 to 2 feet of concrete. However, the completed excavation was filled with gravel at the surface. In addition, the eastern portion of PCB Area #5 has gravel and soil as surface cover.

1.2.2 Horizontal Delineation

- The PCB impacts are delineated by 62 samples collected from 21 locations at depths from 1 to 19 ft bgs (**Figure 2**).

Also, 56 soil samples collected from 24 borings completed in the vicinity of PCB Area #5 did not detect PCBs (**Figure 3**).

1.3 Proposed Restrictions

1.3.1 Current Proposed Restrictions

At PCB Area #5, PCBs were detected at concentrations ranging from 1.2 to 61 ppm. While the majority of the impacts are less than 25 ppm, two samples detected PCBs at concentrations of 28 ppm and 61 ppm.

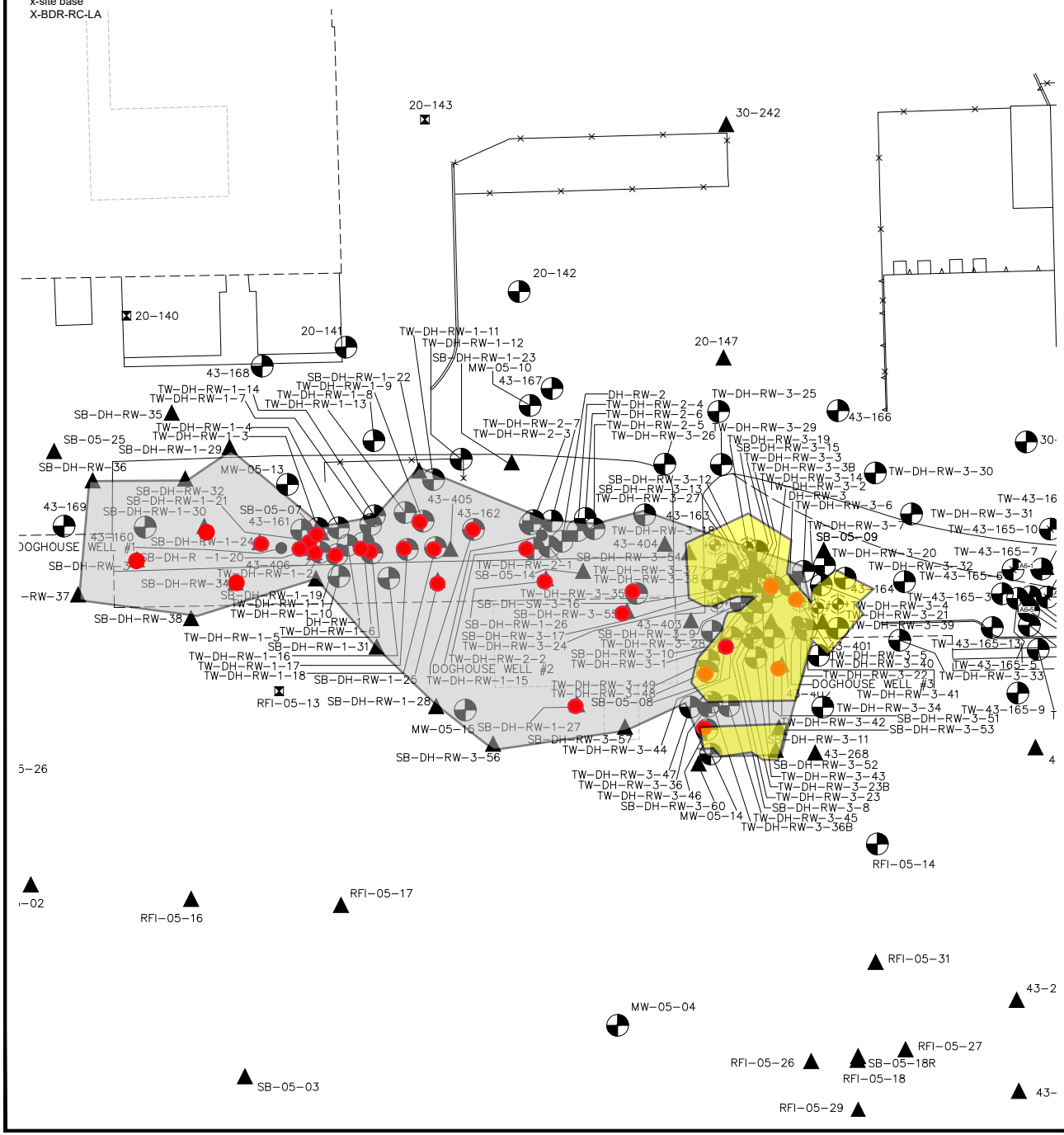
Under current conditions a ***risk-based low occupancy*** closure will be submitted requesting a variance on cap requirements. Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

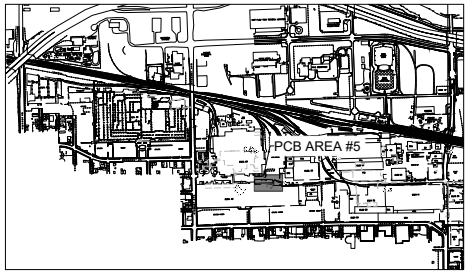
1.3.2 Potential Future Modification

If building construction is completed with installation of a cap in accordance with 40 CFR §761.61(a)(7) *[6 inches of concrete or 10" of properly compacted soil]* a request will be submitted to ***modify to risk-based high occupancy on the condition the cap remains in place.***

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\gstowell\BIM 360\Arcadis\ANA - RACER TRUST\Project Files\Buick City RCRA\2020\30006800\01-DWG\RTBC-RC-SITE PLANS PCB.dwg LAYOUT: 7 SAVED: 4/8/2020 9:20 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 6/3/2020 2:28 PM BY: STOWELL, GARY

XREFS: IMAGES: PROJECTNAME: ----
X-SAMPLE NETWORK
x-site base
X-BDR-RC-LA





LEGEND:

- APPROXIMATE EXTENT OF PCB AREA
- APPROXIMATE EXTENT OF EXCAVATION
- LOCATION WHERE PCBS WERE DETECTED AT A CONCENTRATION GREATER THAN 1 PPM . DATA PROVIDED ON TABLE 1.

0 80' 160'

APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

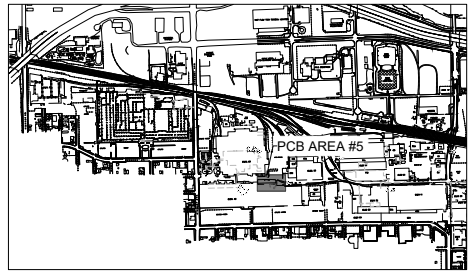
PCB AREA #5
PCB IMPACTS > 1 PPM

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\gstowell\BIM 360\Arcadis\ANA - RACER TRUST\Project Files\Buick City RCRA\2020\30006800\01-DWG\RTBC-RC-SITE PLANS PCB.dwg LAYOUT: 7 SAVED: 4/8/2020 9:20 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 6/3/2020 2:28 PM BY: STOWELL, GARY

XREFS: IMAGES: PROJECTNAME: ----
X-SAMPLE NETWORK
x-site base
X-BDR-RC-LA



LEGEND:

- APPROXIMATE EXTENT OF PCB AREA
- APPROXIMATE EXTENT OF EXCAVATION
- PCBS LESS THAN 1 PPM

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

Y - Elevated reporting limit due to high target detection limit

G - Estimated result due to extraction run outside of holding time

J - Estimated value greater than reporting limit , but greater than MDL

Location ID:		TW-DH-RW-1-4	TW-DH-RW-1-4	TW-DH-RW-1-4
Sample Depth(ft):		5 - 7	9 - 11	13 - 15
Date Collected:	Units	01/13/14	01/13/14	01/13/14
Total PCBs	mg/kg	0.33 U	0.49	0.33 U

Location ID:		TW-DH-RW-1-7	TW-DH-RW-1-7	TW-DH-RW-1-7
Sample Depth(ft):		5 - 7	9 - 11	13 - 15
Date Collected:	Units	01/14/14	01/14/14	01/14/14
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		SB-DH-RW-1-22	SB-DH-RW-1-22	SB-DH-RW-1-22
Sample Depth(ft):		5 - 7	9 - 11	13 - 15
Date Collected:	Units	12/02/19	12/02/19	12/02/19
Total PCBs	mg/kg	0.33 U [0.33 U]	0.33 U	0.33 U

Location ID:		TW-DH-RW-1-3	TW-DH-RW-1-3	TW-DH-RW-1-3
Sample Depth(ft):		5 - 7	9 - 11	13 - 15
Date Collected:	Units	01/13/14	01/13/14	01/13/14
Total PCBs	mg/kg	0.47	0.78	0.33 U

Location ID:		TW-DH-RW-2-3	TW-DH-RW-2-3	TW-DH-RW-2-3
Sample Depth(ft):		5 - 7	9 - 11	13 - 15
Date Collected:	Units	01/10/14	01/10/14	01/10/14
Total PCBs	mg/kg	0.33 U	0.45	0.33 U

Location ID:		TW-DH-RW-1-29	TW-DH-RW-1-29
Sample Depth(ft):		3-5	5-7
Date Collected:	Units	02/25/20	02/25/20
Total PCBs	mg/kg	0.33 U	0.33 U

Location ID:		TW-DH-RW-2-5	TW-DH-RW-2-5	TW-DH-RW-2-5
Sample Depth(ft):		5 - 7	9 - 11	13 - 15
Date Collected:	Units	01/10/14	01/10/14	01/10/14
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		TW-DH-RW-1-32	TW-DH-RW-1-32	TW-DH-RW-1-32
Sample Depth(ft):		3- 5	5 - 7	7 - 9
Date Collected:	Units	03/20/20	03/20/20	03/20/20
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		TW-DH-RW-3-27	TW-DH-RW-3-27	TW-DH-RW-3-27
Sample Depth(ft):		8 - 10	10 - 12	12 - 14
Date Collected:	Units	06/08/15	06/08/15	06/08/15
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		TW-DH-RW-1-36	TW-DH-RW-1-36	TW-DH-RW-1-36
Sample Depth(ft):		3- 5	5 - 7	7 - 9
Date Collected:	Units	03/20/20	03/20/20	03/20/20
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		TW-DH-RW-3-18	TW-DH-RW-3-18	TW-DH-RW-3-18
Sample Depth(ft):		5 - 7	9 - 11	11 - 13
Date Collected:	Units	11/11/14	11/11/14	11/11/14
Total PCBs	mg/kg	0.33 U	0.5	0.33 U

Location ID:		TW-DH-RW-3-6	TW-DH-RW-3-6	TW-DH-RW-3-6
Sample Depth(ft):		5 - 7	9 - 11	13 - 15
Date Collected:	Units	01/09/14	01/09/14	01/09/14
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		SB-DH-RW-3-41	SB-DH-RW-3-41	SB-DH-RW-3-41	SB-DH-RW-3-41	SB-DH-RW-3-41	SB-DH-RW-3-41
Sample Depth(ft):		1 - 3	5 - 7	7 - 9	9 - 11	11 - 13	13 - 15
Date Collected:	Units	12/17/15	12/17/15	12/17/15	12/17/15	12/17/15	12/17/15
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U

Location ID:		SB-DH-RW-3-53	SB-DH-RW-3-53	SB-DH-RW-3-53	SB-DH-RW-3-53
Sample Depth(ft):		9 - 11	11 - 13	13 - 15	15 - 17
Date Collected:	Units	08/09/18	08/09/18	08/09/18	08/09/18
Total PCBs	mg/kg	0.006	0.01	0.012	0.009

Location ID:		SB-DH-RW-3-52	SB-DH-RW-3-52	SB-DH-RW-3-52	SB-DH-RW-3-52	SB-DH-RW-3-52	SB-DH-RW-3-52
Sample Depth(ft):		7 - 9	9 - 11	11 - 13	13 - 15	15 - 17	17 - 19
Date Collected:	Units	08/08/18	08/08/18	08/08/18	08/08/18	08/08/18	08/08/18
Total PCBs	mg/kg	0.002 JG	0.33 UG	0.33 UG	0.33 UG	0.33 UG [0.33 U]	0.33 UG

Location ID:		SB-DH-RW-1-19	SB-DH-RW-1-19	SB-DH-RW-1-19
Sample Depth(ft):		8 - 10	12 - 14	16 - 18
Date Collected:	Units	12/02/19	12/02/19	12/02/19
Total PCBs	mg/kg	0.33 U	0.6	0.33 U

Location ID:		TW-DH-RW-1-38	TW-DH-RW-1-38	TW-DH-RW-1-38
Sample Depth(ft):		6 - 8	8 - 10	10 - 12
Date Collected:	Units	03/19/20	03/19/20	03/19/20
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		TW-DH-RW-1-37	TW-DH-RW-1-37	TW-DH-RW-1-37
Sample Depth(ft):		6 - 8	8 - 10	10 - 12
Date Collected:	Units	03/19/20	03/19/20	03/19/20
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		TW-DH-RW-3-57
Sample Depth(ft):		15-17
Date Collected:	Units	02/25/20
Total PCBs	mg/kg	0.33 U

Location ID:		TW-DH-RW-3-56
Sample Depth(ft):		15-17
Date Collected:	Units	02/25/20
Total PCBs	mg/kg	0.33 U

Location ID:		TW-DH-RW-1-28
Sample Depth(ft):		15-17
Date Collected:	Units	01/07/20
Total PCBs	mg/kg	0.33 U

Location ID:		TW-DH-RW-1-31	TW-DH-RW-1-31
Sample Depth(ft):		12-14	15-17
Date Collected:	Units	02/25/20	02/25/20
Total PCBs	mg/kg	0.33 U	0.33 U

0 80' 160'

APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

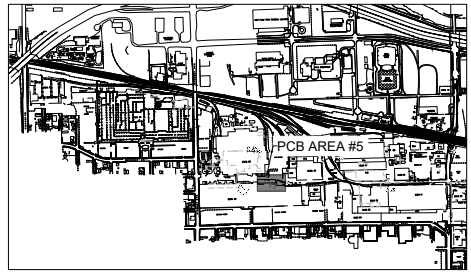
EPA 751.61(c) REQUEST

PCB AREA #5
DELINEATION POINTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\gstowell\BIM 360\Arcadis\ANA - RACER TRUST\Project Files\Buick City RCRA\2020\30006800\01-DWG\RTBC-RC-SITE PLANS PCB.dwg LAYOUT: 7 SAVED: 4/8/2020 9:20 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 6/3/2020 2:28 PM BY: STOWELL, GARY
XREFS: IMAGES: PROJECTNAME: ----
X-SAMPLE NETWORK
x-site base
X-BDR-RC-LA



TW-DH-RW-1-8 (2014)
(5 - 7 ft) 0.33 U
(9 - 11 ft) 0.33 U
(13 - 15 ft) 0.33 U

SB-DH-RW-1-23 (2019)
(5 - 7 ft) 0.33 U
(9 - 11 ft) 0.33 U
(13 - 15 ft) 0.33 U

TW-DH-RW-3-26 (2015)
(7 - 9 ft) 0.33 U
(9 - 11 ft) 0.33 U
(11 - 13 ft) 0.33 U

TW-DH-RW-3-25 (2015)
(7 - 9 ft) 0.33 U
(9 - 11 ft) 0.33 U
(11 - 13 ft) 0.33 U

20-141 (1991)
(5 - 7.5 ft) 0.033 U

43-168 (2000)
(6 - 8 ft) 0.465

MW-05-10 (2014)
(2 - 4 ft) 0.33 U
(6 - 8 ft) 0.33 U

TW-DH-RW-3-29 (2015)
(7 - 9 ft) 0.33 U
(9 - 11 ft) 0.33 U
(11 - 13 ft) 0.33 U

MW-05-13 (2014)
(1 - 3 ft) 0.33 U
(8 - 10 ft) 0.33 U

43-167 (2000)
(6 - 8 ft) 0.038

43-166 (2000)
(6 - 8 ft) 0.042 U

SB-05-25 (2019)
(1 - 3 ft) 0.33 U
(9 - 11 ft) 0.33 U

TW-DH-RW-3-30 (2015)
(7 - 9 ft) 0.33 U
(9 - 11 ft) 0.33 U

TW-DH-RW-3-31 (2015)
(7 - 9 ft) 0.33 U
(9 - 11 ft) 0.33 U
(11 - 13 ft) 0.33 U

TW-DH-RW-3-32 (2015)
(8 - 10 ft) 0.33 U
(10 - 12 ft) 0.33 U
(12 - 14 ft) 0.33 U

43-169 (2000)
(2 - 4 ft) 0.036 U

TW-DH-RW-3-33 (2015)
(10 - 12 ft) 0.33 U
(12 - 14 ft) 0.33 U
(14 - 16 ft) 0.33 U

RFI-05-13 (2001)
(0 - 2 ft) 0.035 U
(8 - 10 ft) 0.036 U
(10 - 12 ft) 0.039 U

TW-DH-RW-3-34 (2015)
(12 - 14 ft) 0.33 U
(14 - 16 ft) 0.33 U
(16 - 18 ft) 0.33 U

43-268 (1994)
(14 - 16 ft) 0.080 U
(21 - 23 ft) 0.016 U

RFI-05-14 (2001)
(0 - 2 ft) 0.035 U
(8 - 10 ft) 0.036 U
(10 - 12 ft) 0.040 U

RFI-05-16 (2001)
(0.8 - 2.8 ft) 0.044 U
(8.8 - 10.8 ft) 0.041 U
(10.8 - 12.8 ft) 0.040 U

RFI-05-17 (2001)
(0.9 - 2.9 ft) 0.037 U
(8.9 - 10.9 ft) 0.038 U
(10.9 - 12.9 ft) 0.037 U

RFI-05-18 (2001)
(0.9 - 2.9 ft) 0.036 U
(6.9 - 8.9 ft) 0.360 J

LEGEND:

PROPOSED EXTENT OF PCB AREA

APPROXIMATE EXTENT OF EXCAVATION

LOCATION WHERE PCBS ARE LESS THAN 1 PPM

0' 160'

APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

PCB AREA #5 ADDITIONAL DATA

ARCADIS Design & Consultancy for natural and built assets

FIGURE
3

Table 1 - PCB Area #5 - PCB Detections > 1 PPM
RACER Trust, Buick City Site, Flint, Michigan

ARCADIS Design & Consultancy for natural and built assets

Location ID:		SB-05-07	SB-05-07	SB-05-07	SB-05-07	SB-05-07	SB-05-07	SB-05-07	SB-05-08	SB-05-08
Sample Depth(ft):		1 - 3	3 - 5	5 - 7	7 - 9	9 - 11	11 - 13	13 - 15	1 - 3	5 - 7
Date Collected:	Units	09/06/13	09/06/13	09/06/13	09/06/13	09/06/13	09/06/13	09/06/13	09/06/13	09/06/13
PCB										
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	1	8 Y	5 Y	0.7	1	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	1 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		SB-05-08	SB-05-08	SB-05-08	SB-05-08	SB-DH-RW-1-20	SB-DH-RW-1-20	SB-DH-RW-1-20	SB-DH-RW-1-21	SB-DH-RW-1-21
Sample Depth(ft):		7 - 9	9 - 11	11 - 13	13 - 15	5 - 7	9 - 11	13 - 15	5 - 7	9 - 11
Date Collected:	Units	09/06/13	09/06/13	09/06/13	09/06/13	12/02/19	12/02/19	12/02/19	12/02/19	12/02/19
PCB										
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	1 UY	0.6 UY	5 UY	0.33 U	0.33 U	1 UY	0.6 UY
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	1 UY	0.6 UY	5 UY	0.33 U	0.33 U	1 UY	0.6 UY
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	1 UY	0.6 UY	5 UY	0.33 U	0.33 U	1 UY	0.6 UY
Aroclor-1242 (PCB-1242)	mg/kg	1	2	9 Y	6 Y	23 Y	1.9	0.33 U	7.5 Y	5.4 Y
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	1 UY	0.6 UY	5 UY	0.33 U	0.33 U	1 UY	0.6 UY
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	1 UY	0.6 UY	5 UY	0.33 U	0.33 U	1 UY	0.6 UY
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	1 UY	0.6 UY	5 UY	0.33 U	0.33 U	1 UY	0.6 UY

Location ID:		SB-DH-RW-1-21	SB-DH-RW-1-24	SB-DH-RW-1-24	SB-DH-RW-1-24	SB-DH-RW-1-25	SB-DH-RW-1-25	SB-DH-RW-1-25	SB-DH-RW-1-26	SB-DH-RW-1-26
Sample Depth(ft):		13 - 15	3 - 5	5 - 7	9 - 11	6 - 8	8 - 10	12 - 14	6 - 8	8 - 10
Date Collected:	Units	12/02/19	01/07/20	01/07/20	01/07/20	01/07/20	01/07/20	01/07/20	01/07/20	01/07/20
PCB										
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.6 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.6 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.6 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	5 Y	3.9 Y	1	0.33 U	0.33 U	2.3	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.6 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.6 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.6 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

See Notes on Page 4.

Table 1 - PCB Area #5 - PCB Detections > 1 PPM
RACER Trust, Buick City Site, Flint, Michigan

ARCADIS Design & Consultancy for natural and built assets

Location ID:		SB-DH-RW-1-26	SB-DH-RW-1-26	SB-DH-RW-1-27	SB-DH-RW-1-30	SB-DH-RW-1-30	SB-DH-RW-1-33	SB-DH-RW-1-33	SB-DH-RW-1-33	SB-DH-RW-1-34
Sample Depth(ft):		12 - 14	15 - 17	15 - 17	3 - 5	5 - 7	3 - 5	5 - 7	7 - 9	6 - 8
Date Collected:	Units	01/07/20	01/07/20	01/07/20	02/25/20	02/25/20	03/20/20	03/20/20	03/20/20	03/19/20
PCB										
Aroclor-1016 (PCB-1016)	mg/kg	1 UY	3 UY [1 UY]	6 UY	3 UY	2 UY	0.33 U	1 UY	2 UY	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	1 UY	3 UY [1 UY]	6 UY	3 UY	2 UY	0.33 U	1 UY	2 UY	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	1 UY	3 UY [1 UY]	6 UY	3 UY	2 UY	0.33 U	1 UY	2 UY	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	7.4 Y	16 Y [8.1 Y]	61 Y	28 Y	11 Y	0.8	4.6 Y	8.6 Y	1.2
Aroclor-1248 (PCB-1248)	mg/kg	1 UY	3 UY [1 UY]	6 UY	3 UY	2 UY	0.33 U	1 UY	2 UY	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	1 UY	3 UY [1 UY]	6 UY	3 UY	2 UY	0.33 U	1 UY	2 UY	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	1 UY	3 UY [1 UY]	6 UY	3 UY	2 UY	0.33 U	1 UY	2 UY	0.33 U

Location ID:		SB-DH-RW-1-34	SB-DH-RW-1-34	SB-DH-RW-3-46	SB-DH-RW-3-46	SB-DH-RW-3-46	SB-DH-RW-3-46	SB-DH-RW-3-46	SB-DH-RW-3-46	SB-DH-RW-3-46
Sample Depth(ft):		8 - 10	10 - 12	1 - 3	5 - 7	7 - 9	9 - 11	11 - 13	13 - 15	15 - 17
Date Collected:	Units	03/23/20	03/23/20	12/17/15	12/17/15	12/17/15	12/17/15	12/17/15	12/17/15	12/17/15
PCB										
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	1.3	1	0.33 U	0.33 U	0.33 U	0.33 U	0.8	0.33 U	1.5
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.4	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		SB-DH-RW-3-46	SB-DH-RW-3-48	SB-DH-RW-3-48	SB-DH-RW-3-48	SB-DH-RW-3-51	SB-DH-RW-3-51	SB-DH-RW-3-51	SB-DH-RW-3-51	SB-DH-RW-3-55
Sample Depth(ft):		17 - 19	9 - 11	11 - 13	15 - 16	7 - 9	9 - 11	11 - 13	13 - 15	9 - 11
Date Collected:	Units	12/17/15	12/16/15	12/16/15	12/16/15	08/08/18	08/08/18	08/08/18	08/08/18	12/02/19
PCB										
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	2 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	2 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	2 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	10 Y	3.5 Y	1.2	1	1	1.7	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	2 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	2 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	2 UY	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

See Notes on Page 4.

Location ID:		SB-DH-RW-3-55	SB-DH-RW-3-55	SB-DH-RW-3-55	SB-DH-RW-3-55	TW-DH-RW-1-1	TW-DH-RW-1-1	TW-DH-RW-1-1	TW-DH-RW-1-2	TW-DH-RW-1-2
Sample Depth(ft):		11 - 13	13 - 15	15 - 17	17 - 19	5 - 7	9 - 11	13 - 15	5 - 7	9 - 11
Date Collected:	Units	12/02/19	12/02/19	12/02/19	12/02/19	01/13/14	01/13/14	01/13/14	01/13/14	01/13/14
PCB										
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	1 UY	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	1.2 UY	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	1 UY	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	1.2 UY	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	1 UY	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	1.2 UY	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	7.1 Y	0.33 U	1.4	0.33 U [0.33 U]	0.33 U	10.8 Y	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	1 UY	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	1.2 UY	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	1 UY	0.33 U	0.33 U	0.9 [0.7]	0.33 U	1.2 UY	1
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	1 UY	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	1.2 UY	0.33 U

Location ID:		TW-DH-RW-1-2	TW-DH-RW-1-5	TW-DH-RW-1-5	TW-DH-RW-1-5	TW-DH-RW-1-6	TW-DH-RW-1-6	TW-DH-RW-1-6	TW-DH-RW-1-9	TW-DH-RW-1-9
Sample Depth(ft):		13 - 15	5 - 7	9 - 11	13 - 15	5 - 7	9 - 11	13 - 15	5 - 7	9 - 11
Date Collected:	Units	01/13/14	01/13/14	01/13/14	01/13/14	01/14/14	01/14/14	01/14/14	11/10/14	11/10/14
PCB										
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.5 UY	0.33 U	0.33 U	0.5 UY	1 UY	0.33 U	0.33 U	0.33 U [0.6 UY]
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.5 UY	0.33 U	0.33 U	0.5 UY	1 UY	0.33 U	0.33 U	0.33 U [0.6 UY]
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.5 UY	0.33 U	0.33 U	0.5 UY	1 UY	0.33 U	0.33 U	0.33 U [0.6 UY]
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	5 Y	0.33 U	0.33 U	4 Y	8 Y	0.33 U	0.33 U	2.3 [2.5 Y]
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.5 UY	0.33 U	0.33 U	0.5 UY	1 UY	0.33 U	0.33 U	0.33 U [0.6 UY]
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.5 UY	0.33 U	0.33 U	0.5 UY	1 UY	0.33 U	0.09 b	0.33 U [0.6 UY]
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.5 UY	0.33 U	0.33 U	0.5 UY	1 UY	0.33 U	0.33 U	0.33 U [0.6 UY]

Location ID:		TW-DH-RW-1-9	TW-DH-RW-1-15	TW-DH-RW-1-15	TW-DH-RW-1-15	TW-DH-RW-1-17	TW-DH-RW-1-17	TW-DH-RW-1-17	TW-DH-RW-1-18	TW-DH-RW-1-18
Sample Depth(ft):		13 - 15	5 - 7	9 - 11	13 - 15	5 - 7	9 - 11	13 - 15	5 - 7	9 - 11
Date Collected:	Units	11/10/14	06/15/15	06/15/15	06/15/15	07/30/15	07/30/15	07/30/15	07/30/15	07/30/15
PCB										
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	2.5	4.3 Y	0.33 U	2	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.3 b	0.33 U	0.33 U	0.4
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

See Notes on Page 4.

Location ID: / Sample Depth(ft): / Date Collected:	Units	TW-DH-RW-1-18 13 - 15 07/30/15	TW-DH-RW-2-2 5 - 7 01/10/14	TW-DH-RW-2-2 9 - 11 01/10/14	TW-DH-RW-2-2 13 - 15 01/10/14	TW-DH-RW-3-2 3 - 5 12/12/13	TW-DH-RW-3-2 9 - 11 12/12/13	TW-DH-RW-3-5 5 - 7 01/09/14	TW-DH-RW-3-5 9 - 11 01/09/14	TW-DH-RW-3-5 13 - 15 01/09/14
PCB										
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	1.4	0.33 U	3.5 Y	0.33 U	0.33 U	1.4	0.43	1.7	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID: / Sample Depth(ft): / Date Collected:	Units	TW-DH-RW-3-35 12 - 14 07/29/15	TW-DH-RW-3-35 14 - 16 07/29/15	TW-DH-RW-3-35 16 - 18 07/29/15
PCB				
Aroclor-1016 (PCB-1016)	mg/kg	0.6 UY	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.6 UY	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.6 UY	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	2.9 Y	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.6 UY	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.6 UY	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.6 UY	0.33 U	0.33 U

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
Y - Elevated reporting limit due to high target detection limit.
b- Value detected less than reporting limit but greater than MDL.

MEMO

To:
Grant Trigger

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From:
Micki M. Maki

Date:
April 6, 2022
Revised May 15, 2023

Arcadis Project No.:
30121887

Subject:
PCB Area #6 – TW-43-165-7 TSCA Deed Restriction
RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

At PCB Area #6, one sample collected from 5 to 7 feet below ground surface (bgs) contains 1.6 parts per million (ppm) PCBs. Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants**.**

Under current conditions this area will be ***closed as low occupancy,*** but the deed restriction may be ***modified to high occupancy*** if a cap is installed in accordance with 40 CFR §761.61(a)(7) *[6 inches of concrete or 10" of properly compacted soil]* and the cap remains in place***.***

1.1 Surface Cover and Geology

Surface cover at PCB Area #6 consists of approximately 1 foot of gravel, underlain by fill material consisting primarily of sand and native interbedded sands and clays. The water table was encountered at 6.0 feet bgs. PCBs were detected at a concentration of 1.6 ppm in the sample collected at TW-43-165-7 from 5 to 7 ft bgs which consists of sand and clay. This soil sample was collected at the water table and the PCBs are likely associated with the LNAPL impacts.

1.2 PCB Impact and Delineation

At PCB Area #6 a total of 33 soil samples were collected for PCB analysis. One soil sample collected from boring TW-43-165-7 from 5 to 7 ft bgs detected PCBs at a concentration greater than 1 ppm. PCBs were detected at a concentration of 1.6 ppm (**Figure 1, Table 1**).

1.2.1 Vertical Delineation

- Additional samples collected at TW-43-165-7/TW-43-165-7R from 1 to 3 ft bgs, 9 to 11 ft bgs and 13 to 15 ft bgs did not detect PCBs greater than 1 ppm therefore the vertical delineation is complete.
- Surface cover in this area consists of 1 feet of gravel.

1.2.2 Horizontal Delineation

- The impact is horizontally delineated by five sample locations collected from 5 to 7 ft bgs (TW-43-165-4, TW-43-165-5, TW-43-165-6, TW-43-165-10, and TW-43-165-11) which did not detect PCBs.
- Locations TW-43-165-4, TW-43-165-5, TW-43-165-6, TW-43-165-10, and TW-43-165-11 are 17 ft west, 17 ft northwest, 17 ft north, 21 ft east, and 31 ft southwest of TW-43-165-7, respectively.

Also, 20 soil samples collected from nine borings completed in the vicinity of PCB Area #6 did not detect PCBs above 1 ppm (**Figure 2**).

1.3 Proposed Restriction

1.3.1 Current Proposed Restrictions

At PCB Area #6, PCBs were detected at a concentration greater than 1 ppm, but less than 10 ppm without a surface cover that meets the requirements of a TSCA cap per 761.61 (a)(7) and (a)(8). Therefore, **a low occupancy deed restriction** will be placed at PCB Area #6.

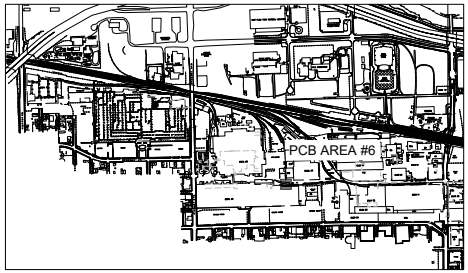
Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

1.3.2 Potential Future Modification

After construction is completed with installation of a cap in accordance with 40 CFR §761.61(a)(7) *[6 inches of concrete or 10" of properly compacted soil]* the deed restriction may be ***modified to high occupancy on the condition the cap remains in place.***

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\alsanchez\BIM 360\Arcadis\ANA - RACER TRUST\Project Files\Buick City RCRA\2020\30006800\01-DWG\RTBC-RC-SITE PLANS PCB.dwg LAYOUT: 8 SAVED: 3/4/2020 7:12 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 3/4/2020 7:14 PM BY: SANCHEZ, ADRIAN

XREFS: IMAGES: PROJECTNAME: ----
X-SAMPLE NETWORK
x-site base
X-BDR-RC-LA



Location ID:		TW-43-165-6	TW-43-165-6	TW-43-165-6
Sample Depth(ft):		5 - 7	9 - 11	13 - 15
Date Collected:	Units	01/15/14	01/15/14	01/15/14
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		TW-43-165-10	TW-43-165-10	TW-43-165-10
Sample Depth(ft):		5 - 7	9 - 11	13 - 15
Date Collected:	Units	11/13/14	11/13/14	11/13/14
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		TW-43-165-7	TW-43-165-7	TW-43-165-7	TW-43-165-7
Sample Depth(ft):		1 - 3	5 - 7	9 - 11	13 - 15
Date Collected:	Units	11/20/19	01/15/14	01/15/14	01/15/14
Total PCBs	mg/kg	0.9	1.6 [0.6]	0.33 U	0.33 U

Location ID:		TW-43-165-11	TW-43-165-11	TW-43-165-11
Sample Depth(ft):		5 - 7	9 - 11	13 - 15
Date Collected:	Units	11/13/14	11/13/14	11/13/14
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		TW-43-165-4	TW-43-165-4	TW-43-165-4
Sample Depth(ft):		5 - 7	9 - 11	13 - 15
Date Collected:	Units	01/14/14	01/14/14	01/14/14
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		TW-43-165-5	TW-43-165-5	TW-43-165-5
Sample Depth(ft):		5 - 7	9 - 11	13 - 15
Date Collected:	Units	01/14/14	01/14/14	01/14/14
Total PCBs	mg/kg	0.5	0.33 U	0.33 U

LEGEND:

- EXTENT OF PROPOSED RESTRICTED AREA
- LOCATIONS WHERE PCBS ARE GREATER THAN 1 PPM
- LOCATIONS WHERE PCBS ARE LESS THAN 1 PPM

0 30' 60'

APPROXIMATE SCALE IN FEET

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

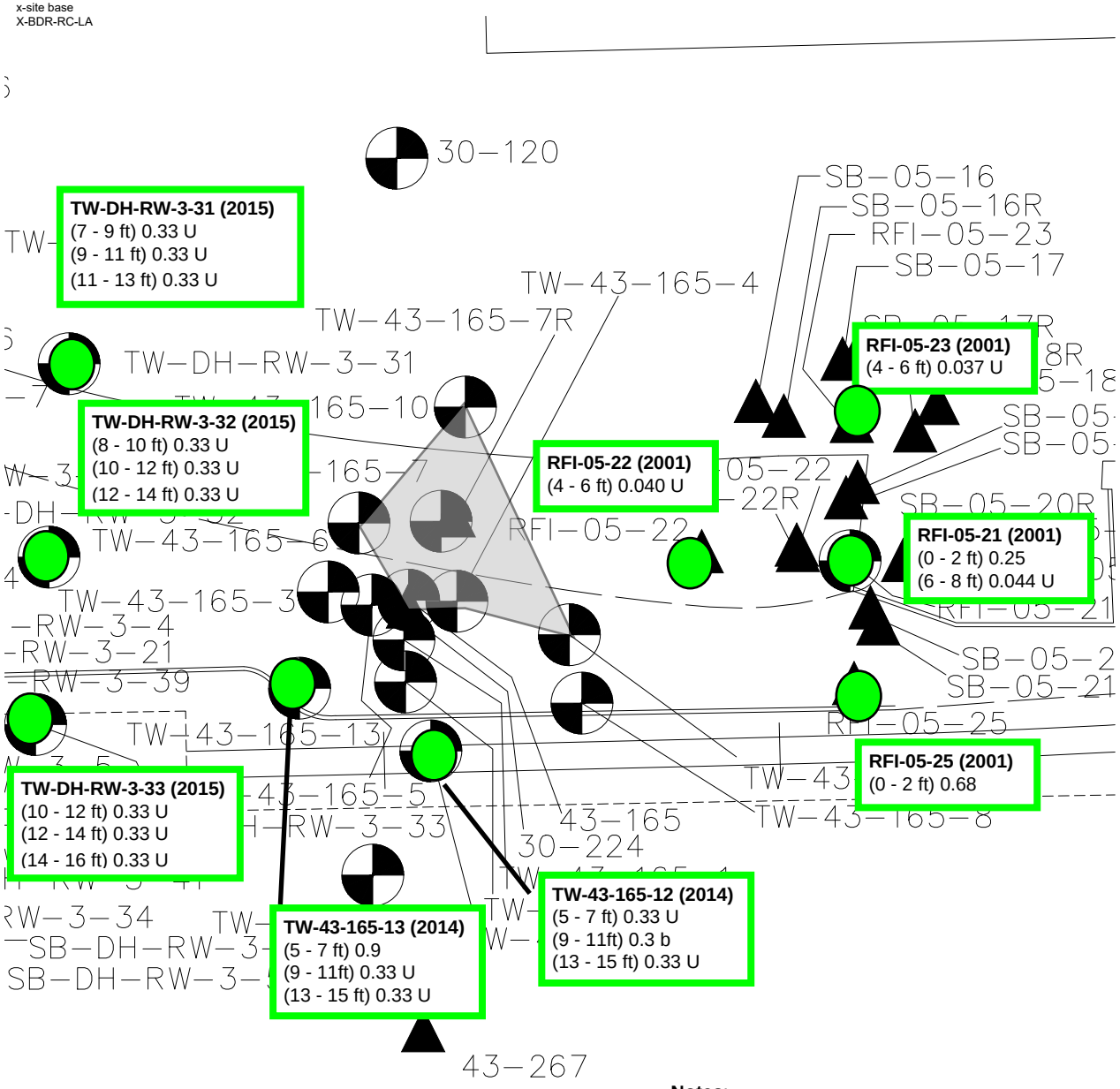
PCB AREA #6 EXCEEDANCE AND DELINEATION POINTS

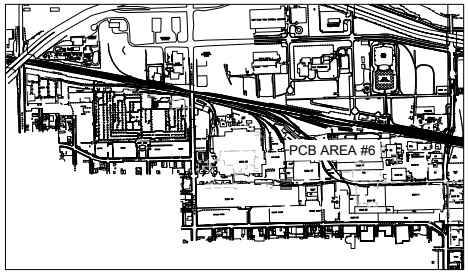
ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\alsanchez\BIM 360\Arcadis\ANA - RACER TRUST\Project Files\Buick City RCRA\2020\30006800\01-DWG\RTBC-RC-SITE PLANS PCB.dwg LAYOUT: 8 SAVED: 3/4/2020 7:12 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 3/4/2020 7:14 PM BY: SANCHEZ, ADRIAN

XREFS: IMAGES: PROJECTNAME: ----
X-SAMPLE NETWORK
x-site base
X-BDR-RC-LA





LEGEND:

PROPOSED EXTENT OF PCB AREA

LOCATION WHERE PCBS ARE LESS THAN 1 PPM

0 30' 60'

APPROXIMATE SCALE IN FEET

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61 REQUEST

PCB AREA #6
ADDITIONAL DATA

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

Table 1 - PCB Area #6 Delineation Data Summary
RACER Trust, Buick City Site, Flint, Michigan

Location ID:		TW-43-165-4	TW-43-165-4	TW-43-165-4	TW-43-165-5	TW-43-165-5	TW-43-165-5	TW-43-165-6	TW-43-165-6	TW-43-165-6	TW-43-165-7
Sample Depth(ft):		5 - 7	9 - 11	13 - 15	5 - 7	9 - 11	13 - 15	5 - 7	9 - 11	13 - 15	5 - 7
Date Collected:	Units	01/14/14	01/14/14	01/14/14	01/14/14	01/14/14	01/14/14	01/15/14	01/15/14	01/15/14	01/15/14
PCB											
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.5	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.6 [0.6]
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]

Location ID:		TW-43-165-7	TW-43-165-7	TW-43-165-7R	TW-43-165-10	TW-43-165-10	TW-43-165-10	TW-43-165-11	TW-43-165-11	TW-43-165-11
Sample Depth(ft):		9 - 11	13 - 15	1 - 3	5 - 7	9 - 11	13 - 15	5 - 7	9 - 11	13 - 15
Date Collected:	Units	01/15/14	01/15/14	11/20/19	11/13/14	11/13/14	11/13/14	11/13/14	11/13/14	11/13/14
PCB										
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.9	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Notes:
mg/kg - milligrams per kilogram
ft bgs - feet below ground surface
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

MEMO

To:
Grant Trigger

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Erin Kozak
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Micki M. Maki

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Tel 248 994 2240
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Date:
April 6, 2022
Revised May 15, 2023

Arcadis Project No.:
30121887

Subject:
PCB Area #7 - RFI-03-03-3 TSCA Deed Restriction
RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

At PCB Area # 7, one sample detected PCBs at a concentration of 1.8 parts per million (ppm) at a depth of 8-10 feet below ground surface (bgs). The portion of PCB Area # 7 located north of the railroad tracks is covered by concrete from 0.5 to 4.5 feet thick, but the railroad portion is covered only by gravel. A ***request for low occupancy will be submitted*** for closure.

Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

1.1 Surface Cover and Geology

Surface cover at PCB Area #7 consists of approximately 0.5 to 4.5 feet of concrete north of the railroad tracks and approximately 1 foot of gravel cover in the area of the railroad tracks. The surface cover is underlain by fill sands with some debris (nails, brick wood, wire, etc) present within the first 10 feet. The water table was encountered at approximately 10 feet bgs. PCB impacts are associated with the LNAPL present at PCB Area #7.

1.2 PCB Impact and Delineation

A soil sample collected from boring TW-03-03-3 from 8 to 10 ft bgs detected PCBs at a concentration of 1.8 ppm (**Figure 1, Table 1**). Vertical and horizontal delineation of this impact is detailed below.

1.2.1 Vertical Delineation

- The 8 to 10 feet bgs sample was collected immediately above the LNAPL/water table; therefore, no deeper samples were collected.
- Samples collected from RFI-03-02 (horizontal delineation sample location) at 1-3, 3-5, and 5-7 all below 1 ppm.
- Surface cover in this area consists of approximately up to 4.5 feet of concrete north of the railroad tracks and gravel in the railroad track area.

1.2.2 Horizontal Delineation

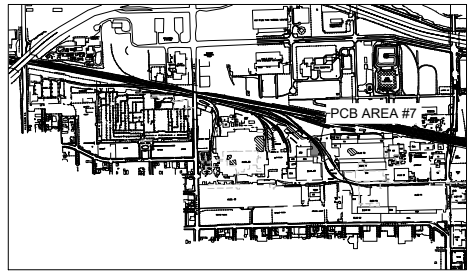
- Soil samples collected from RFI-03-02, TW-03-03-1, TW-03-03-2, TW-03-03-4 and SB-03-20 did not detect PCBs above 1 ppm.
- Locations RFI-03-02, TW-03-03-1, TW-03-03-2, TW-03-03-4 and SB-03-20 are 80 feet south, 50 feet northeast, 60 feet northeast, 37 feet northwest, and 60 feet southwest of the PCB-containing sample location respectively.

1.3 Proposed Restrictions

At PCB Area #7, PCBs were detected at a concentration greater than 1ppm, but less than 10 ppm; however, the surface cover does not meet the requirements of a TSCA cap per 761.61 (a)(7) and (a)(8). While the northern portion of PCB Area #7 is covered with greater than 0.5 ft of concrete; the southern-most portion of the area is covered with gravel. As there is a minimum of 8 feet of cover, a ***request seeking low occupancy final closure*** will be submitted.

Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

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XREFS: IMAGES: PROJECTNAME: ----
X-SAMPLE NETWORK SKETCH 3.65 MSF (002).jpg
X-SITE BASE
X-BDR-RC-LA



Location ID:		TW-03-03-1
Sample Depth(ft):		8 - 10
Date Collected:	Units	11/14/14
Total PCBs	mg/kg	0.33 U

Location ID:		TW-03-03-2
Sample Depth(ft):		8 - 10
Date Collected:	Units	11/14/14
Total PCBs	mg/kg	0.33 U

Location ID:		RFI-03-02	RFI-03-02	RFI-03-02
Sample Depth(ft):		1 - 3	3 - 5	5 - 7
Date Collected:	Units	06/25/01	06/25/01	06/25/01
Total PCBs	mg/kg	0.1555	0.029 J	0.039 U [0.039 U]

Location ID:		TW-03-03-3
Sample Depth(ft):		8 - 10
Date Collected:	Units	11/14/14
Total PCBs	mg/kg	1.8 Y

Location ID:		TW-03-03-4
Sample Depth(ft):		8 - 10
Date Collected:	Units	11/14/14
Total PCBs	mg/kg	0.33 U

Location ID:		SB-03-20	SB-03-20
Sample Depth(ft):		1 - 3	6 - 7
Date Collected:	Units	04/21/22	04/20/22
Total PCBs	mg/kg	0.33 U	0.33 U

LEGEND:

- EXTENT OF PROPOSED RESTRICTED AREA
- LOCATIONS WHERE PCBS ARE GREATER THAN 1 PPM
- LOCATIONS WHERE PCBS ARE LESS THAN 1 PPM

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit
J - Estimated value less than reporting limit but greater than MDL
Y - Elevated reporting limit due to high target detection limit

0 40' 80'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

PCB AREA #7 EXCEEDANCE AND DELINEATION POINTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

Table 1 - PCB Area # 7 Delineation Data Summary
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	RFI-03-02 1 - 3 06/25/01	RFI-03-02 3 - 5 06/25/01	RFI-03-02 5 - 7 06/25/01	TW-03-03-1 8 - 10 11/14/14	TW-03-03-2 8 - 10 11/17/14	TW-03-03-3 8 - 10 11/14/14	TW-03-03-4 8 - 10 11/14/14	SB-03-20 1 - 3 04/21/22	SB-03-20 6 - 7 04/20/22
PCB										
Aroclor-1016 (PCB-1016)	mg/kg	0.037 U	0.038 U	0.039 U [0.039 U]	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.037 U	0.038 U	0.039 U [0.039 U]	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.037 U	0.038 U	0.039 U [0.039 U]	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.037 U	0.038 U	0.039 U [0.039 U]	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.037 U	0.038 U	0.039 U [0.039 U]	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.097	0.038 U	0.039 U [0.039 U]	0.33 U	0.33 U	1.8 Y	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.058	0.029 J	0.039 U [0.039 U]	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U

Notes:
mg/kg - milligrams per kilogram
ft bgs - feet below ground surface
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
Y- Elevated reporting limit due to high target concentration

MEMO

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From:

Micki M. Maki

Date:

April 7, 2022

Revised May 15, 2023

Arcadis Project No.:

30121887

Subject:

PCB Area #8 – AOI 81-2 TSCA Deed Restriction

RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

At PCB Area #8, a portion of historic fill was excavated in 2018/2019 to remove select impacts exceeding 10 parts per million (ppm) total PCBs in the 0 to 2 ft below ground surface (bgs) interval. The excavation was backfilled with clean material. However, due to the presence of PFAS some impacts greater than 10 ppm in the 0 to 2 ft bgs interval were not excavated. Currently PCBs have been detected at 56 locations in PCB Area #8 with concentrations from 1.1 to 15 ppm detected from 0 to 9 feet bgs.

Under current conditions this area will be ***closed as low occupancy.*** Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants. It is expected is that low occupancy restriction will remain after construction.

1.1 Background and Geology

Surface cover at PCB Area #8 consists of topsoil and is underlain by fill material consisting of sand, gravel, and debris. The fill is underlain by sand, silt, and clay. The water table varied across the area and was encountered at depths ranging from 4 to 8 feet bgs. PCBs were detected at greater the 1 ppm at 57 locations in this area from 0 to 9 feet bgs in various lithologies.

In 2018-2019 an excavation was completed at PCB Area #8 in accordance with the EPA approved *PCB Soil Removal Interim Measures Work Plan* (July 10, 2018) The excavation targeted soils greater than 10

ppm from 0 to 2 ft bgs; however, due to the presence of PFAS[1] in soils some impacts greater than 10 ppm in the 0 to 2 ft bgs interval were not excavated. PCB impacts are associated with the LNAPL present at PCB Area #8.

1.2 PCB Impact and Delineation

Delineation at PCB Area #8 consisted of advancing 105 borings and analyzing 266 soil samples. The soil samples collected from 57 borings (**Figure 1, Table 1**) detected PCBs at a concentration greater than 1 ppm. PCB impacts range from 1.1 to 15 ppm and are located from 0 to 9 feet bgs. The soil borings used to delineate soil impacts are presented on **Figure 2** and **Table 2**.

1.2.1 Vertical Delineation

- In the completed excavated areas (**Figure 2**), PCBs greater than 10 ppm were removed. The excavations were backfilled with unimpacted material.
- In the north end of PCB Area #8 the impacts are primarily shallow extending from ground surface to 4 feet bgs.
- In the south end of PCB Area #8 the impacts extend from ground surface to 9 feet bgs.
- Groundwater is located at 4 to 8 feet bgs.

1.2.2 Horizontal Delineation

- The PCB impacts are delineated by 79 samples collected from 33 locations at depths from 0 to 11 ft bgs (**Figure 2**).

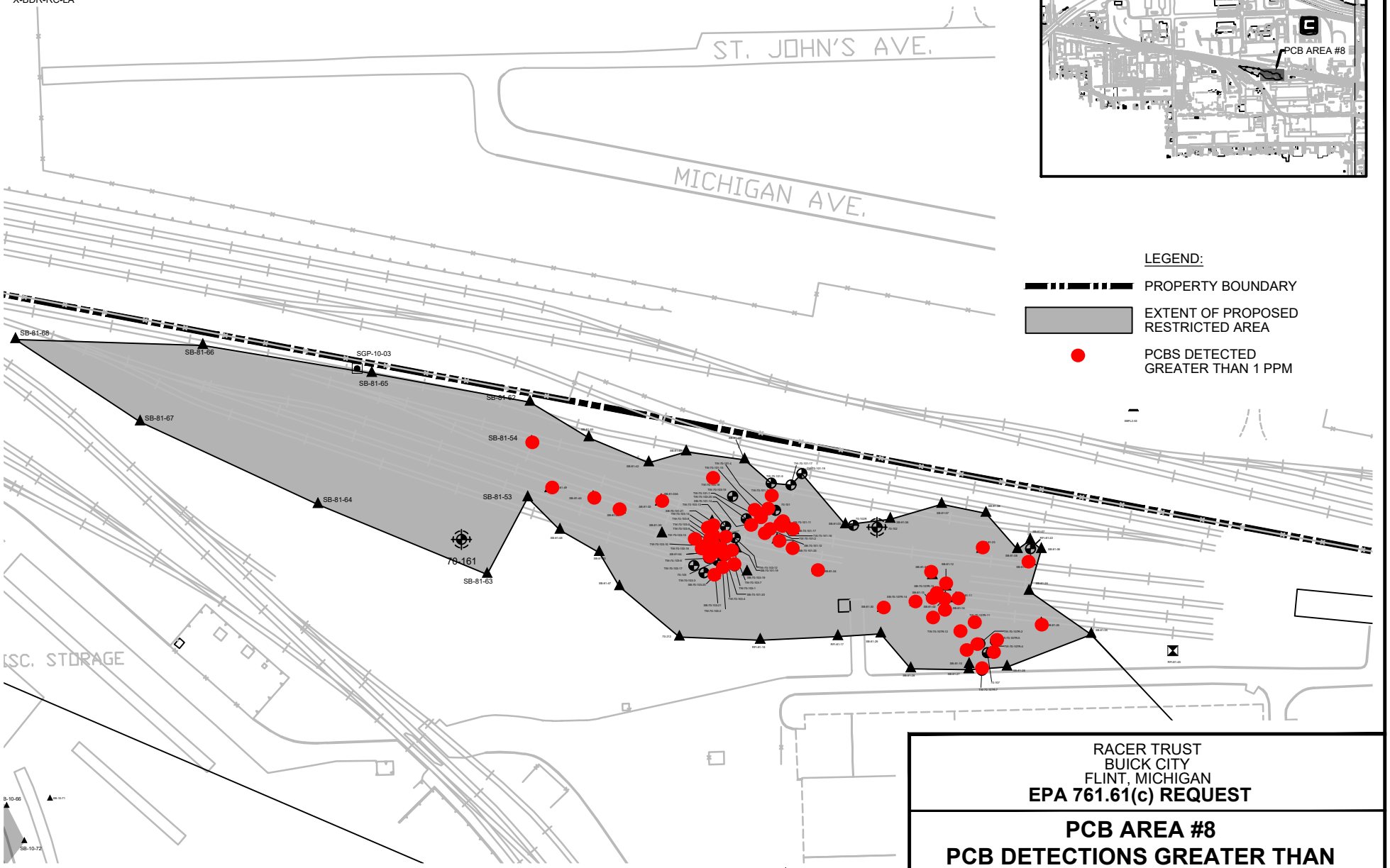
1.3 Proposed Restrictions

Under current conditions this area will be ***closed as low occupancy.*** Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants. It is expected is that low occupancy restriction will remain after construction.

[1] The landfill would not accept PFAS impacted soils at the time.

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\aschilling\ACCDocs\Arcadis\AUS-RACER TRUST-BUICK CITY-FLINT Michigan\Project Files\2022\01-In Progress\01-DWG\2022-RC-SITE PLANS PCB.dwg LAYOUT: 4J SAVED: 11/4/2022 11:00 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 11/4/2022 11:03 AM BY: SCHILLING, ADAM

XREFS: IMAGES: PROJECTNAME: ----
X-SITE BASEFLINT SKETCH 3.65 MSF (002).jpg
X-BDR-RC-LA



LEGEND:

PROPERTY BOUNDARY

EXTENT OF PROPOSED RESTRICTED AREA

PCBS DETECTED GREATER THAN 1 PPM

0 150' 300'

APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

PCB AREA #8
PCB DETECTIONS GREATER THAN 1 PPM LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\aschilling\ACCDocs\Arcadis\AUS-RACER TRUST-BUICK CITY-FLINT Michigan\Project Files\2022\01-In Progress\01-DWG\2022-RC-SITE PLANS PCB.dwg LAYOUT: 4J SAVED: 11/4/2022 11:00 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 11/4/2022 11:03 AM BY: SCHILLING, ADAM

XREFS: IMAGES: PROJECTNAME: ----
X-SITE BASEFLINT SKETCH 3.65 MSF (002).jpg
X-BDR-RC-LA



ST. JOHN'S AVE.

MICHIGAN AVE.

SB-81-68
SB-81-66
SGP-10-03
SB-81-65
SB-81-62
SB-81-67
SB-81-54
SB-81-64
SB-81-53
70-161
SB-81-63
SC. STORAGE
SB-10-72

LEGEND:

PROPERTY BOUNDARY

EXTENT OF PROPOSED RESTRICTED AREA

PCBS LESS THAN 1 PPM

0 150' 300'

APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

PCB AREA #8
PCB DELINEATION LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

Table 1 - PCB Area #8 - PCB Detections > 1 PPM
RACER Trust, Buick City Site, Flint, Michigan

Location ID:		SB-70-101-11	SB-70-101-11	SB-70-101-12	SB-70-101-12	SB-70-101-13	SB-70-101-13	SB-70-101-14	SB-70-101-14	SB-70-101-15	SB-70-101-17	SB-70-101-17	SB-70-101-20	SB-70-101-20
Sample Depth(ft):		0 - 2	2 - 4	0 - 2	2 - 4	0 - 2	2 - 4	0 - 2	2 - 4	2 - 4	0 - 2	2 - 4	0 - 2	2 - 4
Date Collected:	Units	11/21/14	11/21/14	12/05/14	12/05/14	12/05/14	12/05/14	12/05/14	12/05/14	12/05/14	12/21/15	12/21/15	12/22/15	12/22/15
PCB														
Aroclor-1016 (PCB-1016)	mg/kg	6 UY	0.33 U	3 UY	0.6 UY	1 UY	0.33 U	0.6 UY	0.33 U	0.6 UY [0.6 UY]	0.6 UY	0.33 U	2 UY	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	6 UY	0.33 U	3 UY	0.6 UY	1 UY	0.33 U	0.6 UY	0.33 U	0.6 UY [0.6 UY]	0.6 UY	0.33 U	2 UY	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	6 UY	0.33 U	3 UY	0.6 UY	1 UY	0.33 U	0.6 UY	0.33 U	0.6 UY [0.6 UY]	0.6 UY	0.33 U	2 UY	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	6 UY	0.33 U	3 UY	0.6 UY	1 UY	0.33 U	0.6 UY	0.33 U	0.6 UY [0.6 UY]	0.6 UY	0.33 U	2 UY	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	6 UY	0.33 U	3 UY	0.6 UY	1 UY	0.33 U	0.6 UY	0.33 U	0.6 UY [0.6 UY]	0.6 UY	0.33 U	2 UY	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	15 Y	2	13 Y	4.3 Y	11 Y	0.33 U	2.9 Y	0.5	3.1 Y [4.2 Y]	2.6 Y	0.33 U	4.6 Y	0.33
Aroclor-1260 (PCB-1260)	mg/kg	6 UY	0.33 U	3 UY	0.6 UY	1 UY	0.33 U	0.6 UY	0.33 U	0.6 UY [0.6 UY]	0.6 UY	0.33 U	2 UY	0.33 U

Location ID:		SB-70-101-21	SB-70-101-21	SB-70-101-23	SB-70-101-23	SB-70-103-08	SB-70-103-08	SB-70-103-10	SB-70-103-10	SB-70-103-11	SB-70-103-11	SB-70-103-18	SB-70-103-18	SB-70-107R-13
Sample Depth(ft):		0 - 2	2 - 4	0 - 2	2 - 4	3 - 5	5 - 7	3 - 5	5 - 7	3 - 5	5 - 7	0 - 2	2 - 4	2 - 3
Date Collected:	Units	12/22/15	12/22/15	07/15/16	07/15/16	01/31/14	01/31/14	01/31/14	01/31/14	01/31/14	01/31/14	12/05/14	12/05/14	12/22/15
PCB														
Aroclor-1016 (PCB-1016)	mg/kg	2 UY	0.33 U	0.33 U	0.5 UY	0.33 U	1 UY	0.5 UY	0.5 UY	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	2 UY	0.33 U	0.33 U	0.5 UY	0.33 U	1 UY	0.5 UY	0.5 UY	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	2 UY	0.33 U	0.33 U	0.5 UY	0.33 U	1 UY	0.5 UY	0.5 UY	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	2 UY	0.33 U	0.33 U	0.5 UY	0.33 U	1 UY	0.5 UY	0.5 UY	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	2 UY	0.33 U	0.33 U	0.5 UY	0.33 U	1 UY	0.5 UY	0.5 UY	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	6.8 Y	0.33 U	0.6	3 Y	0.7	4.7 Y	3.8 Y	3.5 Y	0.33 U	1.2	5 Y	1.5	0.4
Aroclor-1260 (PCB-1260)	mg/kg	2 UY	0.33 U	0.33 U	0.5 UY	0.33 U	1 UY	0.5 UY	0.5 UY	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U

Location ID:		SB-70-107R-14	SB-70-107R-15	SB-81-02	SB-81-02	SB-81-02	SB-81-02	SB-81-04	SB-81-04	SB-81-04	SB-81-04	SB-81-04	SB-81-09	SB-81-09
Sample Depth(ft):		2 - 4	2 - 4	3 - 5	5 - 7	7 - 9	9 - 11	0 - 2	3 - 5	5 - 7	7 - 9	9 - 11	0 - 2	2 - 4
Date Collected:	Units	12/22/15	12/22/15	09/06/13	09/06/13	09/06/13	09/06/13	09/09/13	09/09/13	09/09/13	09/09/13	09/09/13	12/11/14	12/11/14
PCB														
Aroclor-1016 (PCB-1016)	mg/kg	2 UY	0.33 U	0.5 UY	0.5 UY	0.33 U	0.33 U	0.5 UY	2 UY	0.5 UY	0.6 UY	0.33 U	0.6 UY	0.6 UY
Aroclor-1221 (PCB-1221)	mg/kg	2 UY	0.33 U	0.5 UY	0.5 UY	0.33 U	0.33 U	0.5 UY	2 UY	0.5 UY	0.6 UY	0.33 U	0.6 UY	0.6 UY
Aroclor-1232 (PCB-1232)	mg/kg	2 UY	0.33 U	0.5 UY	0.5 UY	0.33 U	0.33 U	0.5 UY	2 UY	0.5 UY	0.6 UY	0.33 U	0.6 UY	0.6 UY
Aroclor-1242 (PCB-1242)	mg/kg	2 UY	0.33 U	0.5 UY	0.5 UY	0.33 U	0.33 U	0.5 UY	2 UY	0.5 UY	0.6 UY	0.33 U	0.6 UY	0.6 UY
Aroclor-1248 (PCB-1248)	mg/kg	2 UY	0.33 U	0.5 UY	0.5 UY	0.33 U	0.33 U	0.5 UY	2 UY	0.5 UY	0.6 UY	0.33 U	0.6 UY	0.6 UY
Aroclor-1254 (PCB-1254)	mg/kg	7.5 Y	2.5	5 Y	3 Y	0.33 U	0.33 U	3 Y	10 Y	4 Y	3 Y	0.33 U	3.2 Y	2.4 Y
Aroclor-1260 (PCB-1260)	mg/kg	2 UY	0.33 U	0.5 UY	0.5 UY	0.33 U	0.33 U	0.5 UY	2 UY	0.5 UY	0.6 UY	0.33 U	0.6 UY	0.6 UY

Location ID:		SB-81-11	SB-81-11	SB-81-12	SB-81-12	SB-81-13	SB-81-14	SB-81-23	SB-81-23	SB-81-23	SB-81-25	SB-81-25	SB-81-25	SB-81-30
Sample Depth(ft):		0 - 2	2 - 4	0 - 2	2 - 4	2 - 4	2 - 4	0 - 2	3 - 5	7 - 9	0 - 2	3 - 5	7 - 9	0 - 2
Date Collected:	Units	12/11/14	12/11/14	12/11/14	12/11/14	12/11/14	12/11/14	11/15/19	11/18/19	11/18/19	11/18/19	11/18/19	11/18/19	11/15/19
PCB														
Aroclor-1016 (PCB-1016)	mg/kg	1 UY	1 UY	0.33 U	0.33 U [0.6 UY]	0.5 UY	0.5 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	1 UY	1 UY	0.33 U	0.33 U [0.6 UY]	0.5 UY	0.5 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	1 UY	1 UY	0.33 U	0.33 U [0.6 UY]	0.5 UY	0.5 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	1 UY	1 UY	0.33 U	0.33 U [0.6 UY]	0.5 UY	0.5 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	1 UY	1 UY	0.33 U	0.33 U [0.6 UY]	0.5 UY	0.5 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	6.7 Y	8.7 Y	0.72	2.2 [1.9 Y]	3.7 Y	4.9 Y	0.4	2.7	0.33 U	2	1.7	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	1 UY	1 UY	0.33 U	0.33 U [0.6 UY]	0.5 UY	0.5 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

See Notes on Page 3.

Location ID:		SB-81-30	SB-81-30	SB-81-30	SB-81-31	SB-81-31	SB-81-31	SB-81-33B	SB-81-34	SB-81-34	SB-81-34	SB-81-40	SB-81-44	SB-81-44
Sample Depth(ft):		3 - 5	3 - 5	7 - 9	0 - 2	3 - 5	7 - 9	0 - 2	0 - 2	2 - 4	4 - 6	0 - 2	0 - 2	2-4
Date Collected:	Units	11/15/19	11/18/19	11/18/19	11/15/19	11/15/19	11/15/19	02/26/20	11/15/19	11/15/19	11/15/19	02/26/20	03/23/20	03/23/20
PCB														
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY	1 UY	1 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY	1 UY	1 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY	1 UY	1 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY	1 UY	1 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY	1 UY	1 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	1.5	5.6 Y	0.33 U	1.1	0.33 U	0.33 U	1.6 Y	8 Y	7.4 Y	0.9	2.6	3.8	3.1
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY	1 UY	1 UY	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		SB-81-49	SB-81-49	SB-81-54	SB-81-54	TW-70-101-1	TW-70-101-1	TW-70-101-1	TW-70-101-2	TW-70-101-2	TW-70-101-2	TW-70-101-3	TW-70-101-3	TW-70-101-3
Sample Depth(ft):		0 - 2	2-4	1 - 3	3 - 5	0 - 2	3 - 5	7 - 9	0 - 2	3 - 5	7 - 9	0 - 2	3 - 5	7 - 9
Date Collected:	Units	03/23/20	03/23/20	06/15/20	06/15/20	12/04/13	12/04/13	12/04/13	12/04/13	12/04/13	12/04/13	12/05/13	12/05/13	12/05/13
PCB														
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	1 UY	0.33 U	1 UY	0.33 U	0.6 UY	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	1 UY	0.33 U	1 UY	0.33 U	0.6 UY	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	1 UY	0.33 U	1 UY	0.33 U	0.6 UY	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	1 UY	0.33 U	1 UY	0.33 U	0.6 UY	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	1 UY	0.33 U	1 UY	0.33 U	0.6 UY	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	2.2	5.2	0.6	7 Y	2.5	4 Y	0.8	2.9 Y	1.1	0.33 U	2.4 Y	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	1 UY	0.33 U	1 UY	0.33 U	0.6 UY	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U

Location ID:		TW-70-101-4	TW-70-101-4	TW-70-101-4	TW-70-101-7	TW-70-101-7	TW-70-101-7	TW-70-101-16	TW-70-101-16	TW-70-101-16	TW-70-103-1	TW-70-103-1	TW-70-103-1	TW-70-103-2
Sample Depth(ft):		0 - 2	3 - 5	7 - 9	0 - 2	3 - 5	7 - 9	0 - 2	3 - 5	7 - 9	0 - 2	3 - 5	7 - 9	0 - 2
Date Collected:	Units	12/05/13	12/05/13	12/05/13	12/05/13	12/05/13	12/05/13	06/15/15	06/15/15	06/15/15	12/10/13	12/10/13	12/10/13	12/10/13
PCB														
Aroclor-1016 (PCB-1016)	mg/kg	0.6 UY	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.6 UY	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.6 UY	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.6 UY	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.6 UY	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	1.8 Y	6 Y	1.4	0.33 U	2.1	0.33 U	2.1	0.33 U	0.33 U	3.9 Y	0.33 U	0.33 U	1.4
Aroclor-1260 (PCB-1260)	mg/kg	0.6 UY	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U

Location ID:		TW-70-103-2	TW-70-103-2	TW-70-103-4	TW-70-103-4	TW-70-103-4	TW-70-103-5	TW-70-103-5	TW-70-103-5	TW-70-103-6	TW-70-103-6	TW-70-103-6	TW-70-103-7	TW-70-103-7
Sample Depth(ft):		3 - 5	7 - 9	0 - 2	3 - 5	7 - 9	0 - 2	3 - 5	7 - 9	0 - 2	3 - 5	7 - 9	0 - 2	3 - 5
Date Collected:	Units	12/10/13	12/10/13	12/11/13	12/11/13	12/11/13	12/11/13	12/11/13	12/11/13	12/11/13	12/11/13	12/11/13	12/11/13	12/11/13
PCB														
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	2 UY	0.6 UY	0.6 UY	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	2 UY	0.6 UY	0.6 UY	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	2 UY	0.6 UY	0.6 UY	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	2 UY	0.6 UY	0.6 UY	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	2 UY	0.6 UY	0.6 UY	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	1	0.33 U	4.5 Y	1.3	0.33 U	0.3 b	4.6 Y	2.4	2.5	11 Y	5.3 Y	4.7 Y	2.3
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U	2 UY	0.6 UY	0.6 UY	0.33 U

See Notes on Page 3.

Location ID:		TW-70-103-7	TW-70-103-09	TW-70-103-09	TW-70-103-14	TW-70-103-14	TW-70-103-14	TW-70-103-15	TW-70-103-15	TW-70-103-15	TW-70-103-16	TW-70-103-16	TW-70-103-16	TW-70-103-20
Sample Depth(ft):		7 - 9	3 - 5	5 - 7	0 - 2	3 - 5	7 - 9	0 - 2	3 - 5	7 - 9	0 - 2	3 - 5	7 - 9	0 - 2
Date Collected:	Units	12/11/13	01/31/14	01/31/14	11/18/14	11/18/14	11/18/14	11/19/14	11/19/14	11/19/14	11/19/14	11/19/14	11/19/14	06/15/15
PCB														
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U [0.33 U]	0.5 UY	1 UY	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U	0.5 UY	1.5 UY	0.5 UY	0.6 UY
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U [0.33 U]	0.5 UY	1 UY	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U	0.5 UY	1.5 UY	0.5 UY	0.6 UY
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U [0.33 U]	0.5 UY	1 UY	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U	0.5 UY	1.5 UY	0.5 UY	0.6 UY
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U [0.33 U]	0.5 UY	1 UY	0.33 U	0.33 U	0.33 U	5.3 Y	0.33 U	0.33 U	0.5 UY	1.5 UY	0.5 UY	0.6 UY
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U [0.33 U]	0.5 UY	1 UY	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U	0.5 UY	1.5 UY	0.5 UY	0.6 UY
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U [0.33 U]	3.5 Y	6.6 Y	1.3	0.33 U	0.31 b	0.5 UY	0.72	0.33 U	4.8 Y	7.8 Y	3.1 Y	2.6 Y
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U [0.33 U]	0.5 UY	1 UY	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U	0.5 UY	1.5 UY	0.5 UY	0.6 UY

Location ID:		TW-70-103-20	TW-70-103-20	TW-70-107R-1	TW-70-107R-1	TW-70-107R-1	TW-70-107R-2	TW-70-107R-2	TW-70-107R-2	TW-70-107R-4	TW-70-107R-4	TW-70-107R-4	TW-70-107R-5	TW-70-107R-5
Sample Depth(ft):		3 - 5	7 - 9	0 - 2	3 - 5	7 - 9	0 - 2	3 - 5	7 - 9	0 - 2	3 - 5	7 - 9	0 - 2	3 - 5
Date Collected:	Units	06/15/15	06/15/15	12/09/13	12/09/13	12/09/13	12/09/13	12/09/13	12/09/13	12/09/13	12/09/13	12/09/13	12/09/13	12/09/13
PCB														
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.34 [0.2 b]	0.33 U	0.33 U	0.33 U	1.5	0.33 U	0.33 U	4.1 Y [2.8]	0.33 U	0.33 U	1.5	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		TW-70-107R-5	TW-70-107R-7	TW-70-107R-7	TW-70-107R-7	TW-70-107R-11	TW-70-107R-11	TW-70-107R-11	TW-70-107R-12	TW-70-107R-12
Sample Depth(ft):		7 - 9	0 - 2	3 - 5	7 - 9	0 - 2	3 - 5	7 - 9	0 - 2	3 - 5
Date Collected:	Units	12/09/13	12/10/13	12/10/13	12/10/13	11/24/14	11/24/14	11/24/14	11/19/14	11/19/14
PCB										
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY [0.33 U]
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY [0.33 U]
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY [0.33 U]
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY [0.33 U]
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY [0.33 U]
Aroclor-1254 (PCB-1254)	mg/kg	2.1	0.33 U	0.33 U	2.2	0.33 U	1.1	0.33 U	0.25 b	4 Y [2]
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.5 UY [0.33 U]

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
Y - Elevated reporting limit due to high target detection limit.
b- Value detected less than reporting limit but greater than MDL.

Table 2 - PCB Area #8 - PCB Delineation
RACER Trust, Buick City Site, Flint, Michigan

Location ID:		RFI-81-17	RFI-81-18	SB-81-03	SB-81-03	SB-81-03	SB-81-03	SB-81-03	SB-81-06	SB-81-06	SB-81-07	SB-81-07
Sample Depth(ft):		0 - 2	0 - 2	0 - 2	3 - 5	5 - 7	7 - 9	9 - 11	0 - 2	2 - 4	0 - 2	2 - 4
Date Collected:	Units	06/18/01	06/18/01	09/09/13	09/09/13	09/09/13	09/09/13	09/09/13	12/11/14	12/11/14	12/11/14	12/11/14
PCB												
Aroclor-1016 (PCB-1016)	mg/kg	0.037 U	0.038 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.037 U	0.038 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.037 U	0.038 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.037 U	0.038 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.037 U	0.038 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.36	0.74	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.073	0.21	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		SB-81-08	SB-81-08	SB-81-24	SB-81-24	SB-81-24	SB-81-26A	SB-81-26A	SB-81-26A	SB-81-27A	SB-81-27A	SB-81-27A
Sample Depth(ft):		0 - 2	2 - 4	0 - 2	3 - 5	7 - 9	0 - 2	3 - 5	7 - 9	0 - 2	3 - 5	7 - 9
Date Collected:	Units	12/11/14	12/11/14	11/15/19	11/15/19	11/15/19	11/22/19	11/22/19	11/22/19	11/22/19	11/22/19	11/22/19
PCB												
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U

Location ID:		SB-81-28	SB-81-28	SB-81-28	SB-81-29	SB-81-29	SB-81-29	SB-81-35	SB-81-35	SB-81-36	SB-81-36	SB-81-37
Sample Depth(ft):		0 - 2	3 - 5	7 - 9	0 - 2	3 - 5	7 - 9	0 - 2	3 - 5	0 - 2	3 - 5	0 - 2
Date Collected:	Units	11/18/19	11/18/19	11/19/19	11/18/19	11/18/19	11/18/19	01/06/20	01/06/20	02/26/20	02/26/20	02/26/20
PCB												
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.9	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		SB-81-37	SB-81-38	SB-81-38	SB-81-39	SB-81-42	SB-81-43	SB-81-43	SB-81-45	SB-81-45	SB-81-46	SB-81-46
Sample Depth(ft):		3 - 5	0 - 2	3 - 5	0 - 2	0 - 2	0 - 2	2 - 4	0 - 2	2 - 4	0 - 2	2 - 4
Date Collected:	Units	02/26/20	02/26/20	02/26/20	02/26/20	02/26/20	03/23/20	03/23/20	03/23/20	03/23/20	03/23/20	03/23/20
PCB												
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	1	0.33 U	0.33 U [0.6]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

See Notes on Page 2.

Table 2 - PCB Area #8 - PCB Delineation
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Sample Depth(ft): / Date Collected:	Units	SB-81-47 0 - 2 03/23/20	SB-81-47 2 - 4 03/23/20	SB-81-48 0 - 2 03/23/20	SB-81-48 2 - 4 03/23/20	SB-81-50 0 - 2 03/23/20	SB-81-50 2 - 4 03/23/20	SB-81-53 1 - 3 06/15/20	SB-81-53 3 - 5 06/15/20	SB-81-62 1 - 3 07/22/20	SB-81-62 3 - 5 07/22/20	SB-81-62 5 - 7 07/22/20
PCB												
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U [0.33 U]	0.33 U [0.33 U]	0.33 U	0.5 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U [0.33 U]	0.33 U [0.33 U]	0.33 U	0.5 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U [0.33 U]	0.33 U [0.33 U]	0.33 U	0.5 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U [0.33 U]	0.33 U [0.33 U]	0.33 U	0.5 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U [0.33 U]	0.33 U [0.33 U]	0.33 U	0.5 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U [0.33 U]	0.33 U [0.33 U]	0.33 U	1	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U [0.33 U]	0.33 U [0.33 U]	0.33 U	0.5 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID: / Sample Depth(ft): / Date Collected:	Units	SB-81-63 1 - 3 07/22/20	SB-81-63 3 - 5 07/22/20	SB-81-63 5 - 7 07/22/20	SB-81-64 1 - 3 07/22/20	SB-81-64 3 - 5 07/22/20	SB-81-64 5 - 7 07/22/20	SB-81-65 1 - 3 07/22/20	SB-81-65 3 - 5 07/22/20	SB-81-65 5 - 7 07/22/20	SB-81-66 1 - 3 07/22/20	SB-81-66 3 - 5 07/22/20
PCB												
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID: / Sample Depth(ft): / Date Collected:	Units	SB-81-66 5 - 7 07/22/20	SB-81-67 1 - 3 07/22/20	SB-81-67 3 - 5 07/22/20	SB-81-67 5 - 7 07/22/20	TW-70-101-9 0 - 2 11/17/14	TW-70-101-9 3 - 5 11/17/14	TW-70-101-9 7 - 9 11/17/14	TW-70-101-19 0 - 2 12/21/15	TW-70-101-19 2 - 4 12/21/15	TW-70-103-3 0 - 2 12/11/13	TW-70-103-3 3 - 5 12/11/13
PCB												
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID: / Sample Depth(ft): / Date Collected:	Units	TW-70-103-3 7 - 9 12/11/13	TW-70-103-17 0 - 2 11/19/14	TW-70-103-17 3 - 5 11/19/14	TW-70-103-17 7 - 9 11/19/14
PCB					
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U

Notes:
mg/kg - milligramd per kilogram
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

MEMO

ARCADIS Design & Consultancy for natural and built assets

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Grant Trigger

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From:
Micki M. Maki

Date:
April 6, 2022
Revised May 15, 2023

Arcadis Project No.:
30121887

Subject:
PCB Area #9 – RFI-81-42 TSCA Deed Restriction
RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

At PCB Area #9, one sample collected from 0.7 to 2 feet below ground surface (bgs) contains 1.91 parts per million (ppm) of PCBs. This area is covered by a concrete surface approximately 1 foot thick and a second concrete was encountered at 2 feet bgs, essentially confining the one sample of PCBs. Consequently, under current conditions the area can be ***closed as high occupancy*** on the condition the concrete cover is maintained or replaced during new construction.

Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

1.1 Surface Cover and Geology

Surface cover at PCB Area #9 consists of 1 foot of concrete underlain by fill sand with debris material. Concrete present at 2 and 5 feet bgs caused refusal at some locations. This concrete is through to be related to a former pit, which contains the impacted soils. The water table was not encountered in the available borings due to the shallow refusal. The source of this impact is not known.

1.2 PCB Impact and Delineation

A soil sample collected from boring RFI-81-42 from 0.7 to 2 ft bgs detected PCBs at a concentration of 1.91 ppm (**Figure 1, Table 1**). Vertical and horizontal delineation of this impact is detailed below.

1.2.1 Vertical Delineation

- Beneath the impacted sample refusal/concrete was encountered at 2 feet bgs.

1.2.2 Horizontal Delineation

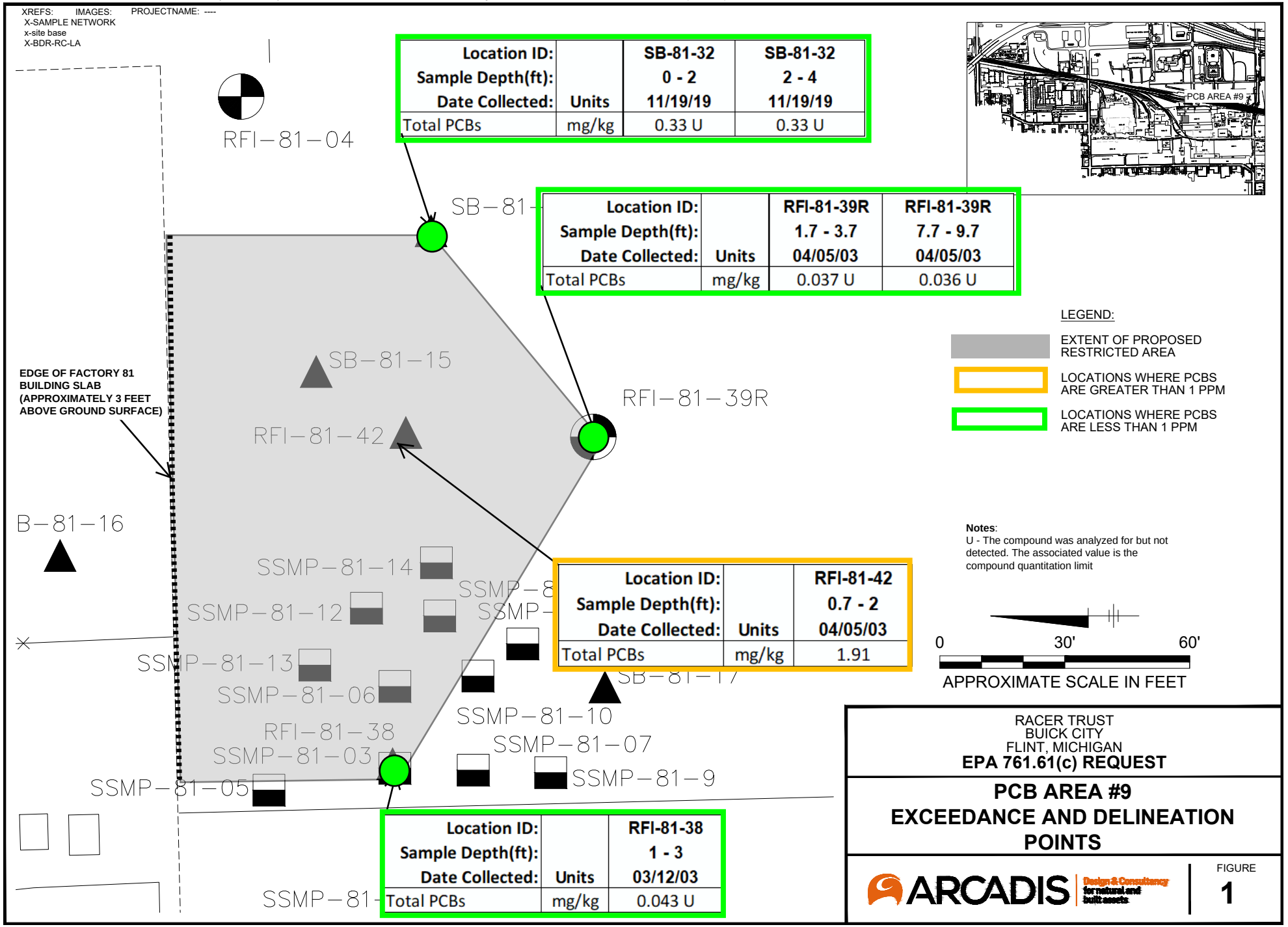
- Soil samples collected from RFI-81-38 (1-3), RFI-81-39R (1.7 to 3.7 and 7.7 to 9.7 ft bgs), and SB-81-32 (0-2 and 2-4 ft bgs), which did not detect PCBs.
- Locations RFI-81-38, RFI-81-39R, and SB-81-32 are 83 feet west, 48 feet south and 51 feet east of the PCB-containing sample location respectively.
- The impact is delineated to the north by the edge of the former factory slab.

1.3 Proposed Restrictions

At PCB Area #9, PCBs were detected at a concentration greater than 1 ppm, but less than 10 ppm with a surface cover that meets the requirements of a TSCA cap per 761.61 (a)(7) and (a)(8). Therefore, the area will be ***closed as high occupancy*** on the condition the concrete cover is maintained or replaced during new construction.

Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\alsanchez\BIM 360\Arcadis\ANA - RACER TRUST\Project Files\Buick City RCRA\2020\30006800\01-DWG\RTBC-RC-SITE PLANS PCB.dwg LAYOUT: 11 SAVED: 3/4/2020 7:12 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 3/4/2020 7:15 PM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ----
X-SAMPLE NETWORK
x-site base
X-BDR-RC-LA



Location ID:		SB-81-32	SB-81-32
Sample Depth(ft):		0 - 2	2 - 4
Date Collected:	Units	11/19/19	11/19/19
Total PCBs	mg/kg	0.33 U	0.33 U

Location ID:		RFI-81-39R	RFI-81-39R
Sample Depth(ft):		1.7 - 3.7	7.7 - 9.7
Date Collected:	Units	04/05/03	04/05/03
Total PCBs	mg/kg	0.037 U	0.036 U

Location ID:		RFI-81-42
Sample Depth(ft):		0.7 - 2
Date Collected:	Units	04/05/03
Total PCBs	mg/kg	1.91

Location ID:		RFI-81-38
Sample Depth(ft):		1 - 3
Date Collected:	Units	03/12/03
Total PCBs	mg/kg	0.043 U

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

PCB AREA #9 EXCEEDANCE AND DELINEATION POINTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

Table 1 - PCB Area # 9 Delineation Data Summary
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	RFI-81-38 1 - 3 03/12/03	RFI-81-39R 1.7 - 3.7 04/05/03	RFI-81-39R 7.7 - 9.7 04/05/03	RFI-81-42 0.7 - 2 04/05/03	SB-81-32 0 - 2 11/19/19	SB-81-32 2 - 4 11/19/19
PCB							
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	3.6 Y	0.5	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.6 UY	0.33 U	0.33 U	0.33 U	0.33 U

Notes:
mg/kg - milligrams per kilogram
ft bgs - feet below ground surface
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
Y- Elevated reporting limit due to high target concentration

MEMO

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Micki M. Maki

Date:

April 4, 2022

Revised May 15, 2023

Arcadis Project No.:

30121887

Subject:

PCB Area #10 – TW-83/84-49-7 TSCA Deed Restriction

RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

At PCB Area #10, one sample collected from 3 to 5 feet below ground surface (bgs) contains 3.6 parts per million (ppm) PCBs. This area is covered by a concrete surface approximately 1 foot thick. Consequently, under current conditions the area can be ***closed as high occupancy*** on the condition the concrete cover is maintained or replaced during new construction.

Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

1.1 Surface Cover and Geology

Surface cover at PCB Area #10 consists of 1 foot of concrete underlain by fill material consisting of sand, some pebbles, slag, bricks and other debris to approximately 5 to 7 feet bgs. The fill material is underlain by interbedded sand, silt, and clay. The water table was encountered at approximately 5 feet bgs. PCBs were detected greater than 1 ppm in the sample collected from 3 to 5 feet bgs in fill sand. PCB impacts are associated with the LNAPL present at PCB Area #10.

1.2 PCB Impact and Delineation

A soil sample collected from boring TW-83/84-49-7 from 3 to 5 feet bgs detected PCBs at a concentration of 3.6 ppm (**Figure 1, Table 1**). Vertical and horizontal delineation of this impact is detailed below.

1.2.1 Vertical Delineation

- Samples collected from 5 to 7, 7 to 9, 9 to 11, 11 to 13, and 15 to 17 feet bgs did not detect PCBs at concentrations greater than 1 ppm.

1.2.2 Horizontal Delineation

- Soil samples collected from RFI-83/84-39 (0.9 to 2.9, 1.1 to 3.1, and 5.1 to 7.1 feet bgs), TW-83/84-49-3 (5 to 7, 7 to 9, 9 to 11, 11 to 13, 13 to 15, and 15 to 17 feet bgs), TW-83/84-49-4 (7 to 9, 9 to 11, 11 to 13, 13 to 15 and 15 to 17 feet bgs), SB-83/84-46 (3 to 5 feet bgs), SB-83/84-47 (3 to 5 feet bgs), TW-83/84-49-8 (7 to 9, 9 to 11, and 11 to 13 feet bgs), TW-83/84-49-9 (7 to 9, 9 to 11, and 11 to 13 feet bgs), and RFI-83/84-22 (1.1 to 3.1, 3.1 to 5.1 and 7.1 to 9.1 feet bgs), which did not detect PCBs at a concentration greater than 1 ppm.
- PCB impacts are delineated to the northeast by RFI-83/84-39 (77 feet NE), TW-83/84-49-3 (38 feet NE), TW-83/84-49-4 (21 feet NE), to the southeast by SB-83/84-46 (35 feet SE), to the southwest by SB-83/84-47 (35 feet SW), and to the northwest by TW-83/84-49-8 (22 feet NW), TW-83/84-49-9 (38 feet NW), and RFI-83/84-22 (96 feet NW) of the PCB-containing sample location respectively.

Also, 12 soil samples collected from five borings completed in the vicinity of PCB Area #1 did not detect PCBs above 1 ppm (**Figure 2**).

1.3 Proposed Restrictions

At PCB Area #10, PCBs were detected at a concentration greater than 1 ppm, but less than 10 ppm with a surface cover that meets the requirements of a TSCA cap per 761.61 (a)(7) and (a)(8). Therefore, the area will be ***closed as high occupancy*** on the condition the concrete cover is maintained or replaced during new construction.

Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\alsanchez\BIM 360\Arcadis\ANA - RACER TRUST\Project Files\Buick City RCRA\2020\30006800\01-DWG\RTBC-RC-SITE PLANS PCB.dwg LAYOUT: 12 SAVED: 3/4/2020 7:12 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 3/11/2020 1:27 PM BY: SANCHEZ, ADRIAN

Location ID:		RFI-83/84-39	RFI-83/84-39	RFI-83/84-39
Sample Depth(ft):		0.9 - 2.9	1.1 - 3.1	5.1 - 7.1
Date Collected:	Units	03/07/03	03/19/03	03/19/03
Total PCBs	mg/kg	0.038 U	0.036 U	0.037 U

Location ID:		TW-83/84-49-3	TW-83/84-49-3	TW-83/84-49-3	TW-83/84-49-3	TW-83/84-49-3	TW-83/84-49-3
Sample Depth(ft):		5 - 7	7 - 9	9 - 11	11 - 13	13 - 15	15 - 17
Date Collected:	Units	11/15/2013	11/15/2013	11/15/2013	11/15/2013	11/15/2013	11/15/2013
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		TW-83/84-49-7	TW-83/84-49-7	TW-83/84-49-7	TW-83/84-49-7	TW-83/84-49-7	TW-83/84-49-7
Sample Depth(ft):		3 - 5	5 - 7	7 - 9	9 - 11	11 - 13	15 - 17
Date Collected:	Units	11/12/13	11/12/13	11/12/13	11/12/13	11/12/13	11/12/13
Total PCBs	mg/kg	3.6	0.5	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		SB-83/84-46
Sample Depth(ft):		3-5
Date Collected:	Units	02/26/20
Total PCBs	mg/kg	0.33 U

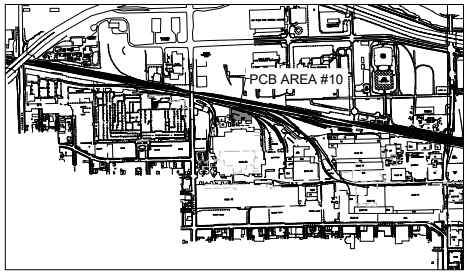
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Sample Depth(ft):		3 - 5	5 - 7	7 - 9	9 - 11	11 - 13	15 - 17
Date Collected:	Units	11/12/13	11/12/13	11/12/13	11/12/13	11/12/13	11/12/13
Total PCBs	mg/kg	3.6	0.5	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		SB-83/84-47
Sample Depth(ft):		3-5
Date Collected:	Units	02/26/20
Total PCBs	mg/kg	0.33 U

Location ID:		RFI-83/84-22	RFI-83/84-22	RFI-83/84-22
Sample Depth(ft):		1.1 - 3.1	3.1 - 5.1	7.1 - 9.1
Date Collected:	Units	12/07/01	12/07/01	12/07/01
Total PCBs	mg/kg	0.283	0.098	0.039 U

Location ID:		TW-83/84-49-9	TW-83/84-49-9	TW-83/84-49-9
Sample Depth(ft):		7 - 9	9 - 11	11 - 13
Date Collected:	Units	11/25/2014	11/25/2014	11/25/2014
Total PCBs	mg/kg	0.33 U	0.33 U [0.4]	0.44

Location ID:		TW-83/84-49-8	TW-83/84-49-8	TW-83/84-49-8
Sample Depth(ft):		7 - 9	9 - 11	11 - 13
Date Collected:	Units	11/25/14	11/25/14	11/25/14
Total PCBs	mg/kg	0.33 U	0.05 b	0.6



LEGEND:

- EXTENT OF PROPOSED RESTRICTED AREA
- LOCATIONS WHERE PCBS ARE GREATER THAN 1 PPM
- LOCATIONS WHERE PCBS ARE LESS THAN 1 PPM

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

0 30' 60'

APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c)REQUEST

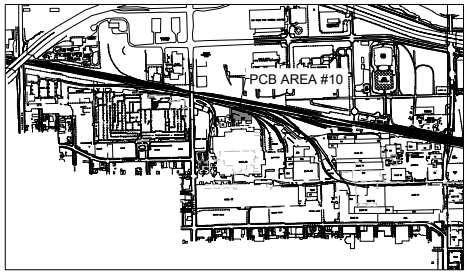
PCB AREA #10 EXCEEDANCE AND DELIENATION POINTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\alsanchez\BIM 360\Arcadis\ANA - RACER TRUST\Project Files\Buick City RCRA\2020\30006800\01-DWG\RTBC-RC-SITE PLANS PCB.dwg LAYOUT: 12 SAVED: 3/4/2020 7:12 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 3/11/2020 1:27 PM BY: SANCHEZ, ADRIAN

XREFS: IMAGES: PROJECTNAME: ----
X-SAMPLE NETWORK
x-site base
X-BDR-RC-LA



RFI-83/84-28

RFI-83/84-28 (2001)
(0.7 - 2.7 ft) 0.049
(2.7 - 4.7 ft) 0.040 U

RFI-83/84-25 (2001)
(0.7 - 2.7 ft) 0.037 U
(8.7 - 10.7 ft) 0.038 U
(10.7 - 12.7 ft) 0.041 U

TW-83/84-49-1
RFI-83/84-49
TW-83/84-49-4
SB-83/84-46
RFI-83/84-39
TW-83/84-49-6
TW-83/84-49-2
TW-83/84-49-3
TW-83/84-49-5
TW-83/84-49-7
SB-83/84-47
RFI-83/84-22
TW-83/84-49-09
TW-83/84-49-08

RFI-83/84-23 (2001)
(1 - 3 ft) 0.036 U
(5 - 7 ft) 0.039 U

RFI-83/84-24
RFI-83/84-13
RFI-83/84-40

RFI-83/84-24 (2001)
(0.8 - 2.8 ft) 0.036 U
(4.8 - 6.8 ft) 0.039 U
(6.8 - 8.8 ft) 0.18

RFI-83/84-14
RFI-83/84-33
RFI-83/84-12
RFI-83/84-04

RFI-83/84-12 (2001)
(0.7 - 2.7 ft) 0.040 U
(2.7 - 4.7 ft) 0.040 J

LEGEND:

PROPOSED EXTENT OF PCB AREA

LOCATION WHERE PCBS ARE LESS THAN 1 PPM

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

0 30' 60'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

PCB AREA #10 ADDITIONAL DATA

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

Table 1 - PCB Area #10 Delineation Data Summary
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Sample Depth(ft BGS): / Date Collected:	Units	RFI-83/84-22 1.10000002384186 - 3.0999 12/07/01	RFI-83/84-22 3.09999990463257 - 5.0999 12/07/01	RFI-83/84-22 7.09999990463257 - 9.1000 12/07/01	RFI-83/84-39 0.899999976158142 - 2.900 03/07/03	RFI-83/84-39 1.10000002384186 - 3.0999 03/19/03	RFI-83/84-39 5.09999990463257 - 7.0999 03/19/03	TW-83/84-49-3 5 - 7 11/15/13	TW-83/84-49-3 7 - 9 11/15/13	TW-83/84-49-3 9 - 11 11/15/13	TW-83/84-49-3 11 - 13 11/15/13
PCB											
Aroclor-1016 (PCB-1016)	mg/kg	0.037 U	0.039 U	0.039 U	0.038 U	0.036 U	0.037 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.037 U	0.039 U	0.039 U	0.038 U	0.036 U	0.037 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.037 U	0.039 U	0.039 U	0.038 U	0.036 U	0.037 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.037 U	0.039 U	0.039 U	0.038 U	0.036 U	0.037 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.037 U	0.039 U	0.039 U	0.038 U	0.036 U	0.037 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.23	0.098	0.039 U	0.038 U	0.036 U	0.037 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.053	0.039 U	0.039 U	0.038 U	0.036 U	0.037 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID: / Sample Depth(ft BGS): / Date Collected:	Units	TW-83/84-49-3 13 - 15 11/15/13	TW-83/84-49-3 15 - 17 11/15/13	TW-83/84-49-4 7 - 9 11/15/13	TW-83/84-49-4 9 - 11 11/15/13	TW-83/84-49-4 11 - 13 11/15/13	TW-83/84-49-4 13 - 15 11/15/13	TW-83/84-49-4 15 - 17 11/15/13	TW-83/84-49-7 3 - 5 11/12/13	TW-83/84-49-7 5 - 7 11/12/13	TW-83/84-49-7 7 - 9 11/12/13
PCB											
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	3.6 Y	0.5	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.6 UY	0.33 U	0.33 U

Location ID: / Sample Depth(ft BGS): / Date Collected:	Units	TW-83/84-49-7 9 - 11 11/12/13	TW-83/84-49-7 11 - 13 11/12/13	TW-83/84-49-7 15 - 17 11/12/13	TW-83/84-49-8 7 - 9 11/25/14	TW-83/84-49-8 9 - 11 11/25/14	TW-83/84-49-8 11 - 13 11/25/14	TW-83/84-49-9 7 - 9 11/25/14	TW-83/84-49-9 9 - 11 11/25/14	TW-83/84-49-9 11 - 13 11/25/14
PCB										
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.05 b	0.6	0.33 U	0.33 U [0.4]	0.44
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0.33 U

Notes:
mg/kg - milligrams per kilogram
ft bgs - feet below ground surface
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

MEMO

ARCADIS Design & Consultancy for natural and built assets

To:
Grant Trigger

Copies:
Erin Kozak
Chris Peters

Arcadis of Michigan, LLC
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

From:
Micki M. Maki

Date:
April 4, 2022
Revised May 15, 2023

Arcadis Project No.:
30121887

Subject:
PCB Area #11 - RFI-86-07 TSCA Deed Restriction
RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

At PCB Area #11, one sample collected from 0.7 to 2.7 feet below ground surface (bgs) contains 3.5 parts per million (ppm) PCBs. This area is covered by a concrete surface approximately 1 foot thick. Consequently, under current conditions this area will be ***closed under high occupancy*** on the condition the concrete cover is maintained or replaced during new construction. Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

1.1 Surface Cover and Geology

Surface cover at PCB Area #11 consists of 8 inches to 1 foot of concrete underlain by interbedded sands, silts, and clays. The impact at PCB Area #11 was detected beneath the concrete slab in a sand interval. The water table was encountered at approximately 11 feet below ground surface feet bgs. The source of this impact is not known.

1.2 PCB Impact and Delineation

At PCB Area #11 PCBs were detected at 3.5 ppm at RFI-86-07 from 0.7 to 2.7 feet bgs **(Figure 1, Table 1**). Vertical and horizontal delineation of this impact is detailed below.

1.2.1 Vertical Delineation

- The sample collected at depth RFI-86-07 (8.7 to 10.7 feet bgs) did not detect PCBs.

1.2.2 Horizontal Delineation

- The PCB detection is delineated by SB-86-13 (1 to 3 and 3 to 5 feet bgs), SB-86-14 (1 to 3 and 3 to 5 feet bgs), SB-86-15 (1 to 3 and 3 to 5 feet bgs),and SB-86-16 (1 to 3 and 3 to 5 feet bgs),
- Locations SB-86-13, SB-86-14, SB-86-15, and SB-86-16 are 35 feet southwest, 20 feet west, 20 feet east and 25 feet southeast of the PCB-containing sample location respectively.
- An approximately 15-foot tall retaining wall (Leith Street underpass) borders the area to the north and delineates the impacts in this direction.

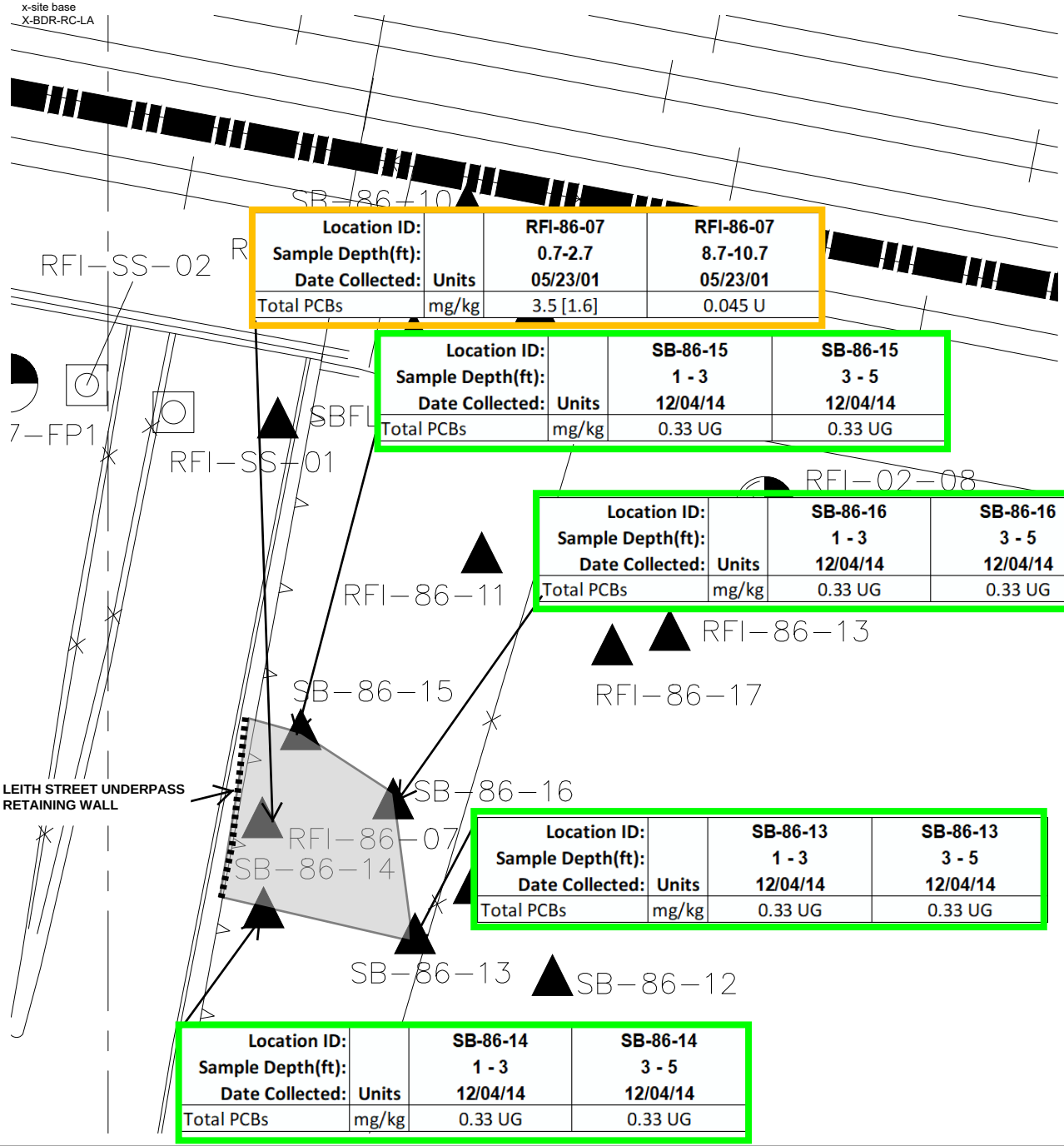
Also, five soil samples collected from two borings completed in the vicinity of PCB Area #11 did not detect PCBs (**Figure 2**).

1.3 Proposed Restrictions

At PCB Area #11, PCBs were detected at a concentration greater than 1 ppm, but less than 10 ppm with surface cover that meets the requirements of a TSCA cap per 761.61 (a)(7) and (a)(8). Therefore, the area will be ***closed as high occupancy*** on the condition the concrete cover is maintained or replaced during new construction. Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\alsanchez\BIM 360\Arcadis\ANA - RACER TRUST\Project Files\Buick City RCRA\2020\30006800\01-DWG\RTBC-RC-SITE PLANS PCB.dwg LAYOUT: 13 SAVED: 3/4/2020 7:12 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 3/4/2020 7:16 PM BY: SANCHEZ, ADRIAN

XREFS: IMAGES: PROJECTNAME: ----
X-SAMPLE NETWORK
x-site base
X-BDR-RC-LA



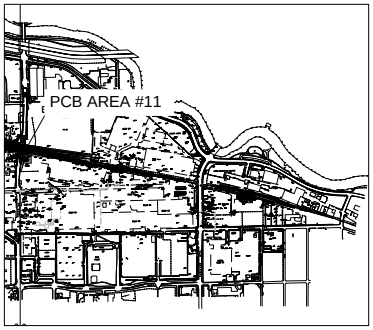
Location ID:		RFI-86-07	RFI-86-07
Sample Depth(ft):		0.7-2.7	8.7-10.7
Date Collected:	Units	05/23/01	05/23/01
Total PCBs	mg/kg	3.5 [1.6]	0.045 U

Location ID:		SB-86-15	SB-86-15
Sample Depth(ft):		1 - 3	3 - 5
Date Collected:	Units	12/04/14	12/04/14
Total PCBs	mg/kg	0.33 UG	0.33 UG

Location ID:		SB-86-16	SB-86-16
Sample Depth(ft):		1 - 3	3 - 5
Date Collected:	Units	12/04/14	12/04/14
Total PCBs	mg/kg	0.33 UG	0.33 UG

Location ID:		SB-86-13	SB-86-13
Sample Depth(ft):		1 - 3	3 - 5
Date Collected:	Units	12/04/14	12/04/14
Total PCBs	mg/kg	0.33 UG	0.33 UG

Location ID:		SB-86-14	SB-86-14
Sample Depth(ft):		1 - 3	3 - 5
Date Collected:	Units	12/04/14	12/04/14
Total PCBs	mg/kg	0.33 UG	0.33 UG



LEGEND:

- EXTENT OF PROPOSED RESTRICTED AREA
- LOCATIONS WHERE PCBS ARE GREATER THAN 1 PPM
- LOCATIONS WHERE PCBS ARE LESS THAN 1 PPM

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

G - Estimated result due to extraction run outside of holding time

0 30' 60'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

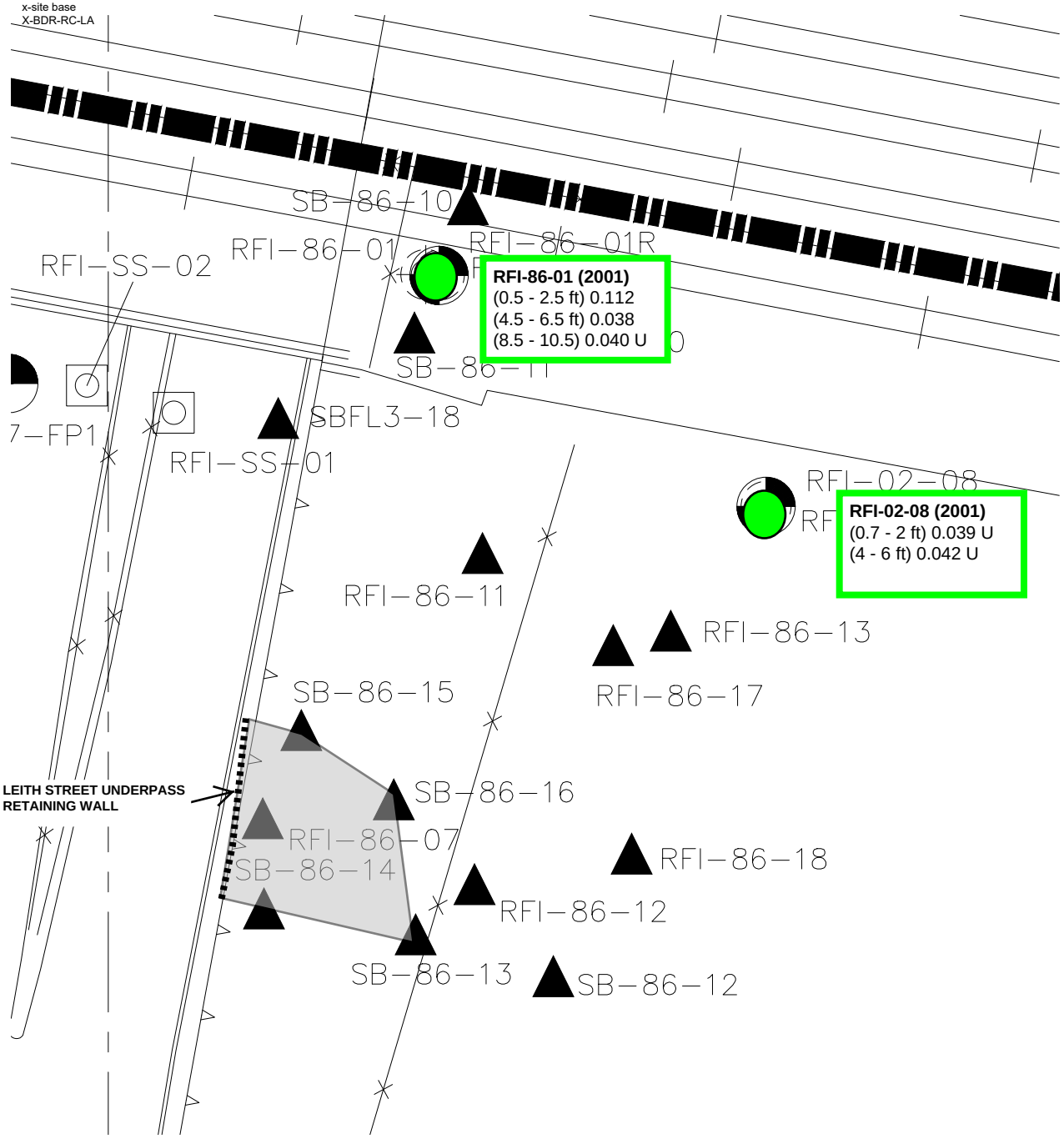
PCB AREA #11 EXCEEDANCE AND DELINEATION POINTS

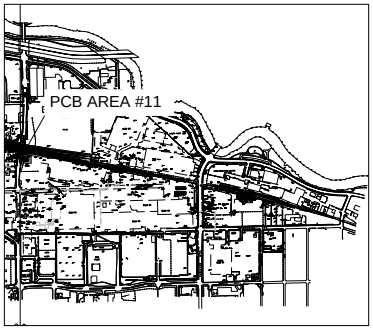
ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\alsanchez\BIM 360\Arcadis\ANA - RACER TRUST\Project Files\Buick City RCRA\2020\30006800\01-DWG\RTBC-RC-SITE PLANS PCB.dwg LAYOUT: 13 SAVED: 3/4/2020 7:12 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 3/4/2020 7:16 PM BY: SANCHEZ, ADRIAN

XREFS: IMAGES: PROJECTNAME: ----
X-SAMPLE NETWORK
x-site base
X-BDR-RC-LA





LEGEND:

PROPOSED EXTENT OF PCB AREA

LOCATION WHERE PCBS ARE LESS THAN 1 PPM

0 30' 60'

APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

PCB AREA #11 ADDITIONAL DATA

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

Table 1 - PCB Area # 11 Delineation Data Summary
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	RFI-86-07 0.7 - 2.7 05/23/01	RFI-86-07 8.7 - 10.7 05/23/01	SB-86-13 1 - 3 12/04/14	SB-86-13 3 - 5 12/04/14	SB-86-15 1 - 3 12/04/14	SB-86-15 3 - 5 12/04/14	SB-86-16 1 - 3 12/04/14	SB-86-16 3 - 5 12/04/14
PCB									
Aroclor-1016 (PCB-1016)	mg/kg	0.19 U [0.039 U]	0.045 U	0.33 UG	0.33 UG	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.19 U [0.039 U]	0.045 U	0.33 UG	0.33 UG	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.19 U [0.039 U]	0.045 U	0.33 UG	0.33 UG	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.19 U [0.039 U]	0.045 U	0.33 UG	0.33 UG	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	3.5 [1.6]	0.045 U	0.33 UG	0.33 UG	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.19 U [0.039 U]	0.045 U	0.33 UG	0.33 UG	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.19 U [0.039 U]	0.045 U	0.33 UG	0.33 UG	0.33 U	0.33 U	0.33 U	0.33 U

Notes:
mg/kg - milligrams per kilogram
ft bgs - feet below ground surface
G - The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

MEMO

To:

Grant Trigger

Copies:

Erin Kozak

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Tel 248 994 2240
Fax 248 994 2241

From:

Micki M. Maki

Date:

April 7, 2022

Revised May 15, 2023

Arcadis Project No.:

30121887

Subject:

PCB Area #12 – BD 94-EP-02 TSCA Deed Restriction

RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

At PCB Area #12, one sample collected from 0.3 to 2 feet below ground surface (bgs) contains 6.9 parts per million (ppm) PCBs. This area is covered by 0.3 to 0.5 feet of asphalt. Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants. Under current conditions this area will be ***closed under low occupancy***, but in the event new construction is completed and a cap is installed in accordance with 40 CFR §761.61(a)(7) *[6 inches of concrete or 10" of properly compacted soil],* the deed restriction may be ***modified to high occupancy on the condition the cap remains in place.***

1.1 Surface Cover and Geology

Surface cover in this area consists of less than 6 inches of asphalt. The PCBs detected at BD 94-EP-02 are located just beneath the asphalt in a silty sand. The source of this impact is unknown. Geology at PCB Area #12 consists of sands, silts, and clays and the water table was encountered at approximately 12 feet below ground surface feet bgs. The source of this impact is not known.

1.2 PCB Impact and Delineation

PCBs were detected in a soil sample collected from boring BD 94-EP-02 from 0.3 to 2 feet bgs at a concentration of 6.9 ppm **(Figure 1, Table 1**). Vertical and horizontal delineation of this impact is detailed below.

1.2.1 Vertical Delineation

- Deeper samples collected at BD 94 EP-02 from 8 to 10 feet bgs and 16 to 18 feet bgs did not detect PCBs above 1 ppm, therefore the vertical delineation is complete.

1.2.2 Horizontal Delineation

- Soil samples collected from borings EP 94-02A (0.5 to 2.5, 2.5 to 4.5 and 4.5 to 6.5 feet bgs), EP 94-02B (0.5 to 2.5, 2.5 to 4.5 and 4.5 to 6.5 feet bgs), EP 94-02C (0.5 to 2.5 and 2.5 to 4.5 feet bgs) and SB-94-08 (1 to 2, 2 to 4, 4 to 6 ft bgs) did not detect PCBs above 1 ppm.
- Locations EP 94-02A, EP 94-02B, EP 94-02C, and SB-94-08 are 30 feet south, 30 feet west, and 20 feet north, and 10 feet northwest of the PCB-containing sample location respectively.

1.3 Proposed Restrictions

1.3.1 Current Proposed Restrictions

At PCB Area #12, PCBs were detected at a concentration greater than 1 ppm, but less than 10 ppm; however, the surface cover does not meet the requirements of a TSCA cap per 761.61 (a)(7) and (a)(8). Therefore, under current conditions this area will be ***closed under low occupancy.***

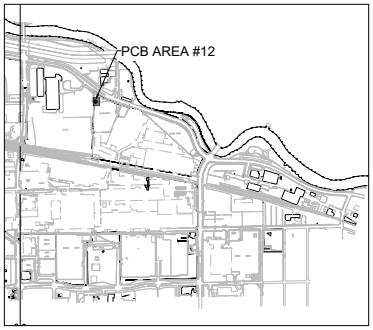
Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

1.3.2 Potential Future Modification

After construction is completed with installation of a cap in accordance with 40 CFR §761.61(a)(7) *[6 inches of concrete or 10" of properly compacted soil],* the deed restriction may be ***modified to high occupancy on the condition the cap remains in place.***

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\aschilling\ACCDocs\Arcadis\AUS-RACER TRUST-BUICK CITY-FLINT Michigan\Project Files\2022\01-In Progress\01-DWG\RTBC-RC-SITE PLANS PCB-2.dwg LAYOUT: 4N SAVED: 8/26/2022 11:02 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 8/26/2022 11:59 AM BY: SCHILLING, ADAM

XREFS: IMAGES: PROJECTNAME: ----
X-SITE BASE FLINT SKETCH 3.65 MSF (002).jpg
X-BDR-RC-LA



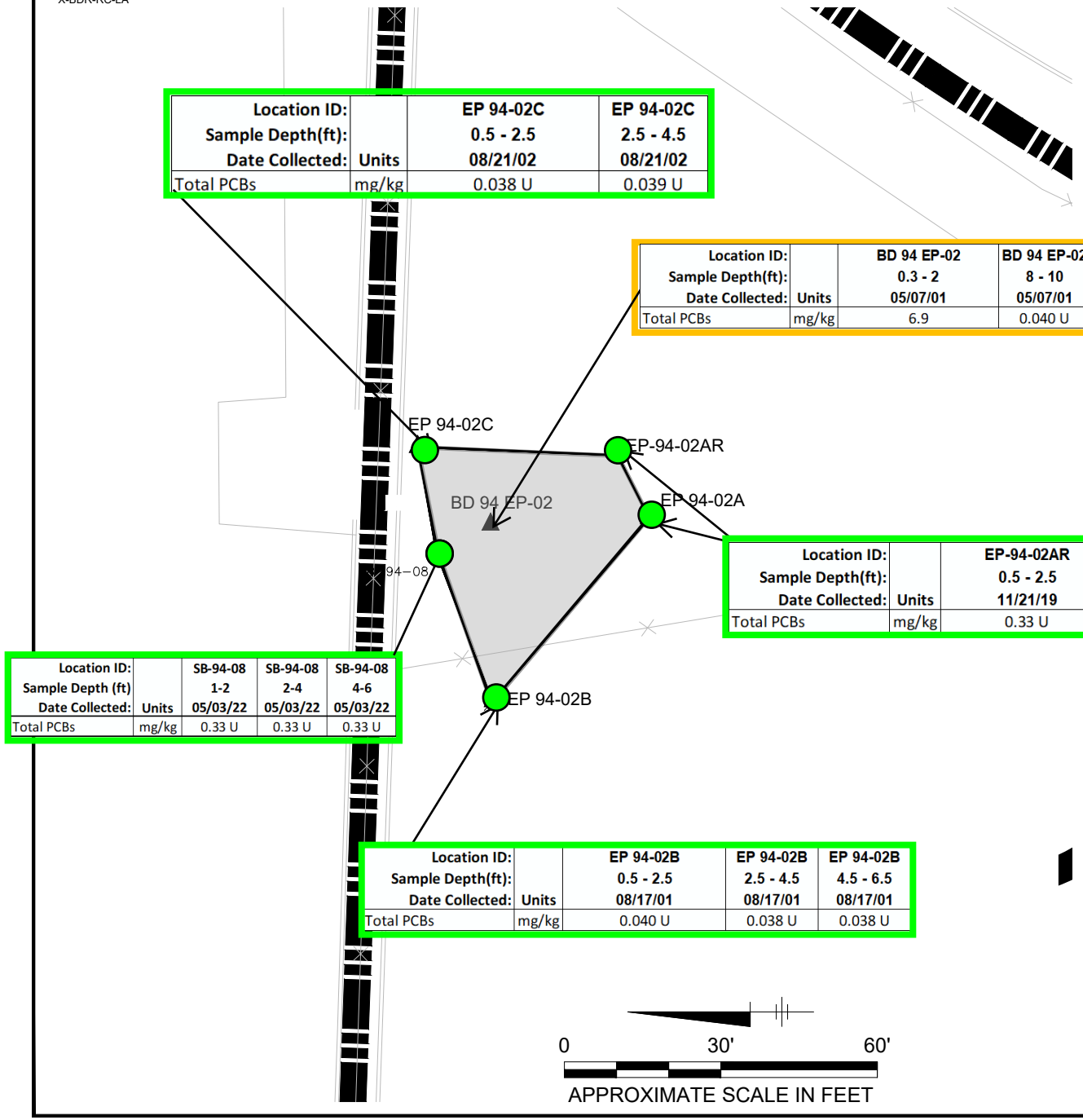
Location ID:		EP 94-02C	EP 94-02C
Sample Depth(ft):		0.5 - 2.5	2.5 - 4.5
Date Collected:	Units	08/21/02	08/21/02
Total PCBs	mg/kg	0.038 U	0.039 U

Location ID:		BD 94 EP-02	BD 94 EP-02	BD 94 EP-02
Sample Depth(ft):		0.3 - 2	8 - 10	16 - 18
Date Collected:	Units	05/07/01	05/07/01	05/07/01
Total PCBs	mg/kg	6.9	0.040 U	0.038 U

Location ID:		EP-94-02AR	EP 94-02A	EP 94-02A
Sample Depth(ft):		0.5 - 2.5	2.5 - 4.5	4.5 - 6.5
Date Collected:	Units	11/21/19	08/17/01	08/17/01
Total PCBs	mg/kg	0.33 U	0.040 U	0.037 U

Location ID:		SB-94-08	SB-94-08	SB-94-08
Sample Depth (ft)		1-2	2-4	4-6
Date Collected:	Units	05/03/22	05/03/22	05/03/22
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		EP 94-02B	EP 94-02B	EP 94-02B
Sample Depth(ft):		0.5 - 2.5	2.5 - 4.5	4.5 - 6.5
Date Collected:	Units	08/17/01	08/17/01	08/17/01
Total PCBs	mg/kg	0.040 U	0.038 U	0.038 U



LEGEND:

- PROPERTY BOUNDARY
- EXTENT OF PROPOSED RESTRICTED AREA
- LOCATION WHERE PCBS ARE GREATER THAN 1 PPM
- LOCATION WHERE PCBS ARE LESS THAN 1 PPM

0 30' 60'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

PCB AREA #12
EXCEEDANCE AND DELINEATION POINTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

Table 1 - PCB Area #12 Delineation Data Summary
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Sample Depth(ft BGS): / Date Collected:	Units	BD 94 EP-02 0.3 - 2 05/07/01	BD 94 EP-02 8 - 10 05/07/01	BD 94 EP-02 16 - 18 05/07/01	EP-94-02AR 0.5 - 2.5 11/21/19	EP 94-02A 2.5 - 4.5 08/17/01	EP 94-02A 4.5 - 6.5 08/17/01	EP 94-02B 0.5 - 2.5 08/17/01	EP 94-02B 2.5 - 4.5 08/17/01	EP 94-02B 4.5 - 6.5 08/17/01	EP 94-02C 0.5 - 2.5 08/21/02	EP 94-02C 2.5 - 4.5 08/21/02
PCB												
Aroclor-1016 (PCB-1016)	mg/kg	0.2 U	0.04 U	0.038 U	0.33 U	0.04 U	0.037 U	0.04 U	0.038 U	0.038 U	0.038 U	0.039 U
Aroclor-1221 (PCB-1221)	mg/kg	0.2 U	0.04 U	0.038 U	0.33 U	0.04 U	0.037 U	0.04 U	0.038 U	0.038 U	0.038 U	0.039 U
Aroclor-1232 (PCB-1232)	mg/kg	0.2 U	0.04 U	0.038 U	0.33 U	0.04 U	0.037 U	0.04 U	0.038 U	0.038 U	0.038 U	0.039 U
Aroclor-1242 (PCB-1242)	mg/kg	0.2 U	0.04 U	0.038 U	0.33 U	0.04 U	0.037 U	0.04 U	0.038 U	0.038 U	0.038 U	0.039 U
Aroclor-1248 (PCB-1248)	mg/kg	0.2 U	0.04 U	0.038 U	0.33 U	0.04 U	0.037 U	0.04 U	0.038 U	0.038 U	0.038 U	0.039 U
Aroclor-1254 (PCB-1254)	mg/kg	6.9	0.04 U	0.038 U	0.33 U	0.04 U	0.037 U	0.04 U	0.038 U	0.038 U	0.038 U	0.039 U
Aroclor-1260 (PCB-1260)	mg/kg	0.2 U	0.04 U	0.038 U	0.33 U	0.04 U	0.037 U	0.04 U	0.038 U	0.038 U	0.038 U	0.039 U

Location ID: / Sample Depth(ft BGS): / Date Collected:	Units	SB-94-08 1 - 2 05/03/22	SB-94-08 2 - 4 05/03/22	SB-94-08 4 - 6 05/03/22
PCB				
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U

Notes:
mg/kg - milligrams per kilogram
ft bgs - feet below ground surface
U - The compound was

MEMO

To:

Grant Trigger

Copies:

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Chris Peters

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From:

Micki M. Maki

Date:

April 7, 2022

Revised May 15, 2023

Arcadis Project No.:

30121887

Subject:

PCB Area #13 - RFI-40-12 TSCA Deed Restriction

RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

At PCB Area #13, four samples detected PCBs at concentrations ranging from 1.12 to 1.6 parts per million (ppm) at depth from 0 to 2 feet below ground surface (bgs). Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants. Under current conditions this area will be ***closed as low occupancy*** but in the event construction is completed, if a cap is installed in accordance with 40 CFR §761.61(a)(7) *[6 inches of concrete or 10" of properly compacted soil]*, the deed restriction may be ***modified to high occupancy on the condition the cap remains in place.***

1.1 Surface Cover and Geology

Surface cover in this area consists of soil. The PCBs detected at RFI-40-12 are thought to be associated with impacted fill placed during Site demolition activities. Boring logs indicate that shallow soils consist of silt and sand with rubble, building debris, and glass. The water table was encountered at approximately 15 feet below ground surface feet bgs. PCBs were detected greater than 1 ppm in samples collected from 0 to 2 ft bgs in fill sand. Th source of these impacts is not known.

1.2 PCB Impact and Delineation

PCBs were detected in a soil sample collected from boring RFI-40-12 from 0 to 2 ft bgs at a concentration of 1.12 ppm. Delineation samples collected from 0 to 2 ft bgs at locations SB-40-17, SB-40-18, and SB-40-20 also detected PCBs at concentrations ranging from 1.3 to 1.6 ppm (**Figure 1**).

1.2.1 Vertical Delineation

- Deeper samples collected at RFI-40-12 from 8 to 10 and 12 to 14 ft bgs did not detect PCBs above 1 ppm; therefore, the vertical delineation is complete.

1.2.2 Horizontal Delineation

- Soil samples collected from boring 40-7R (0 to 2, 2 to 4, 8 to 10, and 12 to 14 ft bgs), SB-40-01 (1 to 3 and 3 to 5 ft bgs), SB-40-19 (0 to 2 ft bgs), and SB-40-21 (0 to 2 ft bgs) did not detect PCBs above 1 ppm.
- Locations 40-7R, SB-40-01, SB-40-01, SB-40-19, and SB-40-21 are 30 ft north, 30 ft northwest, 15 ft west and 40 ft south of the PCB-containing samples, respectively.

1.3 Proposed Restrictions

1.3.1 Current Proposed Restrictions

At PCB Area #13, PCBs were detected at a concentration greater than 1 ppm, but less than 10 ppm; however, the surface cover does not meet the requirements of a TSCA cap per 761.61 (a)(7) and (a)(8). Therefore, under current conditions this area will be ***closed under low occupancy.***

Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

1.3.2 Potential Future Modification

After construction is completed with installation of a cap in accordance with 40 CFR §761.61(a)(7) *[6 inches of concrete or 10" of properly compacted soil],* the deed restriction may be ***modified to high occupancy on the condition the cap remains in place.***

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
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XREFS: IMAGES: PROJECTNAME: ----
X-SAMPLE NETWORK
x-site base
X-BDR-RC-LA

Location ID:		40-7R	40-7R	40-7R	40-7R
Sample Depth(ft):		0 - 2	2 - 4	8 - 10	12 - 14
Date Collected:	Units	11/20/01	11/20/01	11/20/01	11/20/01
Total PCBs	mg/kg	0.22 J	0.041 U	0.044 U	0.038 U

Location ID:		RFI-40-12	RFI-40-12	RFI-40-12
Sample Depth(ft):		0 - 2	8 - 10	12 - 14
Date Collected:	Units	03/24/03	03/24/03	03/24/03
Total PCBs	mg/kg	1.12	0.037 U	0.040 U

Location ID:		SB-40-20
Sample Depth(ft):		0 - 2
Date Collected:	Units	07/12/18
Total PCBs	mg/kg	1.3

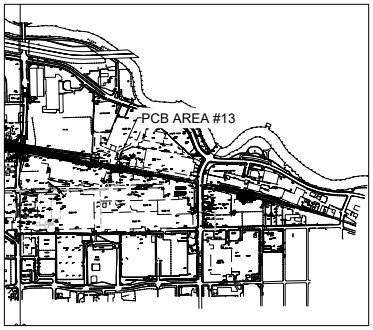
Location ID:		SB-40-17
Sample Depth(ft):		0 - 2
Date Collected:	Units	07/12/18
Total PCBs	mg/kg	1.6

Location ID:		SB-40-18
Sample Depth(ft):		0 - 2
Date Collected:	Units	07/12/18
Total PCBs	mg/kg	1.6

Location ID:		SB-40-19
Sample Depth(ft):		0 - 2
Date Collected:	Units	07/12/18
Total PCBs	mg/kg	0.9

Location ID:		SB-40-21
Sample Depth(ft):		0 - 2
Date Collected:	Units	11/20/19
Total PCBs	mg/kg	0.33 U

Location ID:		SB-40-01	SB-40-01
Sample Depth(ft):		1 - 3	3 - 5
Date Collected:	Units	09/17/13	09/17/13
Total PCBs	mg/kg	0.33 U	0.33 U



LEGEND:

- EXTENT OF PROPOSED RESTRICTED AREA
- LOCATIONS WHERE PCBS ARE GREATER THAN 1 PPM
- LOCATIONS WHERE PCBS ARE LESS THAN 1 PPM

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

J - Estimated value less than reporting limit but greater than MDL

0 30' 60'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

PCB AREA #13 EXCEEDANCE AND DELINEATION POINTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

Table 1 - PCB Area #13 Delineation Data Summary
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Sample Depth(ft BGS): / Date Collected:	Units	40-7R 0 - 2 11/20/01	40-7R 2 - 4 11/20/01	40-7R 8 - 10 11/20/01	40-7R 12 - 14 11/20/01	RFI-40-12 0 - 2 03/24/03	RFI-40-12 8 - 10 03/24/03	RFI-40-12 12 - 14 03/24/03
PCB								
Aroclor-1016 (PCB-1016)	mg/kg	0.04 U	0.041 U	0.044 U	0.038 U	0.042 U	0.037 U	0.04 U
Aroclor-1221 (PCB-1221)	mg/kg	0.04 U	0.041 U	0.044 U	0.038 U	0.042 U	0.037 U	0.04 U
Aroclor-1232 (PCB-1232)	mg/kg	0.04 U	0.041 U	0.044 U	0.038 U	0.042 U	0.037 U	0.04 U
Aroclor-1242 (PCB-1242)	mg/kg	0.04 U	0.041 U	0.044 U	0.038 U	0.042 U	0.037 U	0.04 U
Aroclor-1248 (PCB-1248)	mg/kg	0.04 U	0.041 U	0.044 U	0.038 U	0.16	0.037 U	0.04 U
Aroclor-1254 (PCB-1254)	mg/kg	0.04 U	0.041 U	0.044 U	0.038 U	0.96	0.037 U	0.04 U
Aroclor-1260 (PCB-1260)	mg/kg	0.22 J	0.041 U	0.044 U	0.038 U	0.042 U	0.037 U	0.04 U

Location ID: / Sample Depth(ft BGS): / Date Collected:	Units	SB-40-01 1 - 3 09/17/13	SB-40-01 3 - 5 09/17/13	SB-40-17 0 - 2 07/12/18	SB-40-18 0 - 2 07/12/18	SB-40-19 0 - 2 07/12/18	SB-40-20 0 - 2 07/12/18	SB-40-21 0 - 2 11/20/19
PCB								
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	1.6	1.6 Y	0.9	1.3	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.5 UY	0.33 U	0.33 U	0.33 U

Notes:
mg/kg - milligrams per kilogram
ft bgs - feet below ground surface
J - Result is less that the RL but greater than or equal to the MDL. The concentration is an approximate value.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
Y- Elevated reporting limit due to high target concentration.

MEMO

To:

Grant Trigger

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From:

Micki M. Maki

Date:

April 7, 2022

Revised May 15, 2023

Arcadis Project No.:

30121887

Subject:

PCB Area #14 - RFI-16-04 TSCA Deed Restriction

RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

At PCB Area #14, one sample collected from 4 to 6 feet below ground surface (bgs) detected PCBs at a concentration of 1.13 parts per million (ppm). Surface cover in this area varies from 2 feet of gravel to approximately 0.8 feet of concrete. Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants**.**

Under current conditions this area will be ***closed under low occupancy***, but in the event new construction is completed, if a cap is installed in accordance with 40 CFR §761.61(a)(7) *[6 inches of concrete or 10" of properly compacted soil],* the deed restriction may be ***modified to high occupancy on the condition the cap remains in place.***

1.1 Surface Cover and Geology

Surface cover at PCB Area #14 consists of 0.8 feet of concrete or asphalt and gravel fill material. Beneath the surface cover lies fill material consisting of coarse sands and gravel. Concrete is present at 3 to 4 feet and 12 feet bgs in some areas. The water table was encountered at approximately 6 to 8 feet bgs. PCBs were detected above 1 ppm in a sample collected from 4 to 6 feet bgs, which consists of silty clay.

1.2 PCB Impact and Delineation

A soil sample collected from boring RFI-16-04 from 4 to 6 feet below ground surface detected PCBs at a concentration of 1.13 ppm **(Figure 1, Table 1**). Vertical and horizontal delineation of this impact is detailed below.

1.2.1 Vertical Delineation

- A shallower sample collected at RFI-16-04 from 0.7 to 2 feet bgs did not detect PCBs above 1 ppm, there was no recovery from 6 to 8 feet bgs to sample, and groundwater was encountered at 8 feet bgs.

1.2.2 Horizontal Delineation

- Soil samples collected from borings SB-16-07 (0.5 to 2.5 and 4.5 to 6.5 feet bgs), RFI-16-20 (1 to 3 and 4 to 6 feet bgs), SB-40-22 (0 to 2, 2 to 4 and 4 to 6 feet bgs), SB-40-30 (0 to 2, 4 to 6 and 6 to 8 feet bgs) and SB-40-31 (0 to 2, 4 to 6 and 6 to 8 feet bgs) did not detect PCBs above 1 ppm.
- Locations RFI-16-07, RFI-16-20, SB-40-22, SB-40-30, and SB-40-31 are 100 feet northwest, 100 feet northeast, 20 feet south, 33 feet east, and 33 feet west of the PCB-containing samples, respectively.

1.3 Proposed Restrictions

1.3.1 Current Proposed Restrictions

At PCB Area #14, PCBs were detected at a concentration greater than 1 ppm, but less than 10 ppm: however, the surface cover does not meet the requirements of a TSCA cap per 761.61 (a)(7) and (a)(8). Therefore, under current conditions this area will be ***closed as low occupancy.***

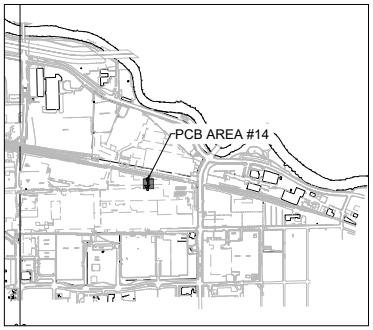
Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants**.**

1.3.2 Potential Future Modification

After construction is completed with installation of a cap in accordance with 40 CFR §761.61(a)(7) *[6 inches of concrete or 10" of properly compacted soil]* the deed restriction may be ***modified to high occupancy on the condition the cap remains in place.***

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\aschilling\ACCDocs\Arcadis\AUS-RACER TRUST-BUICK CITY-FLINT Michigan\Project Files\2022\01-In Progress\01-DWG\2022-RC-SITE PLANS PCB.dwg LAYOUT: 4P SAVED: 11/4/2022 11:00 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 11/4/2022 11:01 AM BY: SCHILLING, ADAM

XREFS: IMAGES: PROJECTNAME: ----
X-SITE BASEFLINT SKETCH 3.65 MSF (002).jpg
X-BDR-RC-LA



LEGEND:

EXTENT OF PROPOSED RESTRICTED AREA

LOCATIONS WHERE PCBS ARE GREATER THAN 1 PPM

LOCATIONS WHERE PCBS ARE LESS THAN 1 PPM

Notes:

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

Location ID:		RFI-16-20	RFI-16-20
Sample Depth(ft):		1 - 3	4 - 6
Date Collected:	Units	12/04/01	12/04/01
Total PCBs	mg/kg	0.040 U	0.039 U

Location ID:		SB-40-30	SB-40-30	SB-40-30
Sample Depth (ft)		0-2	4-6	6-8
Date Collected:	Units	10/13/22	10/13/22	10/13/22
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		RFI-16-04	RFI-16-04
Sample Depth(ft):		0.7 - 2	4 - 6
Date Collected:	Units	05/15/01	05/15/01
Total PCBs	mg/kg	0.097	1.13

Location ID:		SB-40-22	SB-40-22	SB-40-22
Sample Depth(ft):		0 - 2	2 - 4	4 - 6
Date Collected:	Units	11/20/19	11/20/19	11/20/19
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		RFI-16-07	RFI-16-07
Sample Depth(ft):		0.5 - 2.5	4.5 - 6.5
Date Collected:	Units	06/06/01	06/06/01
Total PCBs	mg/kg	0.036 U	0.039 U [0.039 U]

Location ID:		SB-40-31	SB-40-31	SB-40-31
Sample Depth (ft)		0-2	4-6	6-8
Date Collected:	Units	10/13/22	10/13/22	10/13/22
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

SB-40-30
RFI-16-20
RFI-16-04R
SB-40-22
RFI-16-07
40-302
SB-40-31

PCB IMPACTS DETECTED AT CONCENTRATIONS OF UP TO 1.13 PPM

0 30' 60'

APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(C) REQUEST

PCB AREA #14 EXCEEDANCE AND DELINEATION LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

Table 1 - PCB Area #14 Delineation Data Summary
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	RFI-16-04 0.7 - 2 05/15/01	RFI-16-04 4 - 6 05/15/01	RFI-16-07 0.5 - 2.5 06/06/01	RFI-16-07 4.5 - 6.5 06/06/01	RFI-16-20 1 - 3 12/04/01	RFI-16-20 4 - 6 12/04/01	SB-40-22 0 - 2 11/20/19	SB-40-22 2 - 4 11/20/19	SB-40-22 4 - 6 11/20/19
PCB										
Aroclor-1016 (PCB-1016)	mg/kg	0.037 U	0.038 U	0.036 U	0.039 U [0.039 U]	0.04 U	0.039 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.037 U	0.038 U	0.036 U	0.039 U [0.039 U]	0.04 U	0.039 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.037 U	0.038 U	0.036 U	0.039 U [0.039 U]	0.04 U	0.039 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.037 U	0.038 U	0.036 U	0.039 U [0.039 U]	0.04 U	0.039 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.037 U	0.038 U	0.036 U	0.039 U [0.039 U]	0.04 U	0.039 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.097	0.88	0.036 U	0.039 U [0.039 U]	0.04 U	0.039 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.037 U	0.25	0.036 U	0.039 U [0.039 U]	0.04 U	0.039 U	0.33 U	0.33 U	0.33 U

Location ID: Sample Depth(ft BGS): Date Collected:	Units	SB-40-30 0 - 2 10/13/22	SB-40-30 4 - 6 10/13/22	SB-40-30 6 - 8 10/13/22	SB-40-31 0 - 2 10/13/22	SB-40-31 4 - 6 10/13/22	SB-40-31 6 - 8 10/13/22
PCB							
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Notes:
mg/kg - milligrams per kilogram
ft bgs - feet below ground surface
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

MEMO

To:

Grant Trigger

Copies:

Erin Kozak

Chris Peters

Arcadis of Michigan, LLC
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Suite 500
Novi
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Tel 248 994 2240
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From:

Micki M. Maki

Date:

April 7, 2022

Revised May 15, 2023

Arcadis Project No.:

30121887

Subject:

PCB Area #14 - RFI-16-04 TSCA Deed Restriction

RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

At PCB Area #14, one sample collected from 4 to 6 feet below ground surface (bgs) detected PCBs at a concentration of 1.13 parts per million (ppm). Surface cover in this area varies from 2 feet of gravel to approximately 0.8 feet of concrete. Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants**.**

Under current conditions this area will be ***closed under low occupancy***, but in the event new construction is completed, if a cap is installed in accordance with 40 CFR §761.61(a)(7) *[6 inches of concrete or 10" of properly compacted soil],* the deed restriction may be ***modified to high occupancy on the condition the cap remains in place.***

1.1 Surface Cover and Geology

Surface cover at PCB Area #14 consists of 0.8 feet of concrete or asphalt and gravel fill material. Beneath the surface cover lies fill material consisting of coarse sands and gravel. Concrete is present at 3 to 4 feet and 12 feet bgs in some areas. The water table was encountered at approximately 6 to 8 feet bgs. PCBs were detected above 1 ppm in a sample collected from 4 to 6 feet bgs, which consists of silty clay.

1.2 PCB Impact and Delineation

A soil sample collected from boring RFI-16-04 from 4 to 6 feet below ground surface detected PCBs at a concentration of 1.13 ppm **(Figure 1, Table 1**). Vertical and horizontal delineation of this impact is detailed below.

1.2.1 Vertical Delineation

- A shallower sample collected at RFI-16-04 from 0.7 to 2 feet bgs did not detect PCBs above 1 ppm, there was no recovery from 6 to 8 feet bgs to sample, and groundwater was encountered at 8 feet bgs.

1.2.2 Horizontal Delineation

- Soil samples collected from borings SB-16-07 (0.5 to 2.5 and 4.5 to 6.5 feet bgs), RFI-16-20 (1 to 3 and 4 to 6 feet bgs), SB-40-22 (0 to 2, 2 to 4 and 4 to 6 feet bgs), SB-40-30 (0 to 2, 4 to 6 and 6 to 8 feet bgs) and SB-40-31 (0 to 2, 4 to 6 and 6 to 8 feet bgs) did not detect PCBs above 1 ppm.
- Locations RFI-16-07, RFI-16-20, SB-40-22, SB-40-30, and SB-40-31 are 100 feet northwest, 100 feet northeast, 20 feet south, 33 feet east, and 33 feet west of the PCB-containing samples, respectively.

1.3 Proposed Restrictions

1.3.1 Current Proposed Restrictions

At PCB Area #14, PCBs were detected at a concentration greater than 1 ppm, but less than 10 ppm: however, the surface cover does not meet the requirements of a TSCA cap per 761.61 (a)(7) and (a)(8). Therefore, under current conditions this area will be ***closed as low occupancy.***

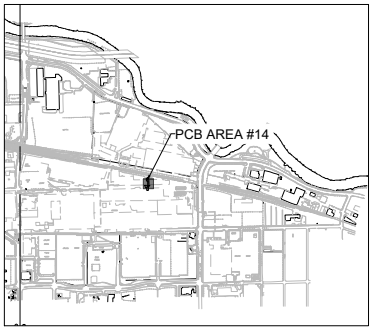
Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants**.**

1.3.2 Potential Future Modification

After construction is completed with installation of a cap in accordance with 40 CFR §761.61(a)(7) *[6 inches of concrete or 10" of properly compacted soil]* the deed restriction may be ***modified to high occupancy on the condition the cap remains in place.***

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
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XREFS: IMAGES: PROJECTNAME: ----
X-SITE BASEFLINT SKETCH 3.65 MSF (002).jpg
X-BDR-RC-LA



LEGEND:

EXTENT OF PROPOSED RESTRICTED AREA

LOCATIONS WHERE PCBS ARE GREATER THAN 1 PPM

LOCATIONS WHERE PCBS ARE LESS THAN 1 PPM

Notes:

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

Location ID:		RFI-16-20	RFI-16-20
Sample Depth(ft):		1 - 3	4 - 6
Date Collected:	Units	12/04/01	12/04/01
Total PCBs	mg/kg	0.040 U	0.039 U

Location ID:		SB-40-30	SB-40-30	SB-40-30
Sample Depth (ft)		0-2	4-6	6-8
Date Collected:	Units	10/13/22	10/13/22	10/13/22
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		RFI-16-04	RFI-16-04
Sample Depth(ft):		0.7 - 2	4 - 6
Date Collected:	Units	05/15/01	05/15/01
Total PCBs	mg/kg	0.097	1.13

Location ID:		SB-40-22	SB-40-22	SB-40-22
Sample Depth(ft):		0 - 2	2 - 4	4 - 6
Date Collected:	Units	11/20/19	11/20/19	11/20/19
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		RFI-16-07	RFI-16-07
Sample Depth(ft):		0.5 - 2.5	4.5 - 6.5
Date Collected:	Units	06/06/01	06/06/01
Total PCBs	mg/kg	0.036 U	0.039 U [0.039 U]

Location ID:		SB-40-31	SB-40-31	SB-40-31
Sample Depth (ft)		0-2	4-6	6-8
Date Collected:	Units	10/13/22	10/13/22	10/13/22
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

SB-40-30
RFI-16-20
RFI-16-04R
SB-40-22
RFI-16-07
40-302
SB-40-31

PCB IMPACTS DETECTED AT CONCENTRATIONS OF UP TO 1.13 PPM

0 30' 60'

APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(C) REQUEST

PCB AREA #14 EXCEEDANCE AND DELINEATION LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

Table 1 - PCB Area #14 Delineation Data Summary
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	RFI-16-04 0.7 - 2 05/15/01	RFI-16-04 4 - 6 05/15/01	RFI-16-07 0.5 - 2.5 06/06/01	RFI-16-07 4.5 - 6.5 06/06/01	RFI-16-20 1 - 3 12/04/01	RFI-16-20 4 - 6 12/04/01	SB-40-22 0 - 2 11/20/19	SB-40-22 2 - 4 11/20/19	SB-40-22 4 - 6 11/20/19
PCB										
Aroclor-1016 (PCB-1016)	mg/kg	0.037 U	0.038 U	0.036 U	0.039 U [0.039 U]	0.04 U	0.039 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.037 U	0.038 U	0.036 U	0.039 U [0.039 U]	0.04 U	0.039 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.037 U	0.038 U	0.036 U	0.039 U [0.039 U]	0.04 U	0.039 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.037 U	0.038 U	0.036 U	0.039 U [0.039 U]	0.04 U	0.039 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.037 U	0.038 U	0.036 U	0.039 U [0.039 U]	0.04 U	0.039 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.097	0.88	0.036 U	0.039 U [0.039 U]	0.04 U	0.039 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.037 U	0.25	0.036 U	0.039 U [0.039 U]	0.04 U	0.039 U	0.33 U	0.33 U	0.33 U

Location ID: Sample Depth(ft BGS): Date Collected:	Units	SB-40-30 0 - 2 10/13/22	SB-40-30 4 - 6 10/13/22	SB-40-30 6 - 8 10/13/22	SB-40-31 0 - 2 10/13/22	SB-40-31 4 - 6 10/13/22	SB-40-31 6 - 8 10/13/22
PCB							
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Notes:
mg/kg - milligrams per kilogram
ft bgs - feet below ground surface
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

MEMO

ARCADIS Design & Consultancy for natural and built assets

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Chris Peters

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Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

From:
Micki M. Maki

Date:
April 7, 2022
Revised May 15, 2023

Arcadis Project No.:
30121887

Subject:
PCB Area #15 – ACSP-B3A TSCA Deed Restriction
RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

At PCB Area #15, one sample collected from 6 to 8 feet below ground surface (bgs) detected PCBs at a concentration of 4.7 parts per million (ppm). Surface cover in this area consists of topsoil. Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants. Under current conditions this area will be ***closed as low occupancy,*** but in the event new construction is completed, if a cap is installed in accordance with 40 CFR §761.61(a)(7) *[6 inches of concrete or 10" of properly compacted soil],* the deed restriction may be ***modified to high occupancy on the condition the cap remains in place.***

1.1 Surface Cover and Geology

PCB Area #15 is located at a portion of the Site that was historically used as the Harriet Street Tank Farm. Surface cover at PCB Area #15 consists of 1 foot of topsoil with sand, gravel, and organic material. Beneath the topsoil lies fill material down to 5 feet bgs. Below 5 feet various concrete slabs were encountered layered with sands and gravels to a depth of 10 feet bgs. This is underlain by silts and sand. The water table was encountered at approximately 15 feet bgs. The source of this impact is unknown.

PCBs were detected at ACSP-B3A above 1 ppm in the sample collected from 6 to 8 feet bgs in an interval of black silt which was not encountered in the delineation borings.

1.2 PCB Impact and Delineation

A soil sample collected from boring ACSP-B3A from 6 to 8 feet bgs detected PCBs at a concentration of 4.7 ppm (**Figure 1, Table 1**). Vertical and horizontal delineation of this impact is detailed below.

1.2.1 Vertical Delineation

- Shallower samples collected at ACSP-B3A from 0 to 0.5 and 4 to 6 feet bgs and deeper samples collected at ACSP-B3A from 10 to 12 and 12 to 14 feet bgs did not detect PCBs above 1 ppm; therefore, the vertical delineation is complete.

1.2.2 Horizontal Delineation

- Soil samples collected from borings ACSP-B3D (0 to 2, 5 to 7, 7 to 9, 10 to 12 and 12 to 14 feet bgs), SB-ACSP-01 (0 to 2 and 6 to 8 feet bgs), and SB-ACSP-02 (1 to 2 and 6 to 8 feet bgs) did not detect PCBs above 1 ppm.
- PCB impacts are delineated by ACSP-B3D, SB-ACSP-01 and SB-ACSP-02, which are located 20 feet southeast, 40 feet north, and 40 feet southwest of ACSP-B3A respectively.

Also, 16 soil samples collected from three borings completed in the vicinity of PCB Area #15 did not detect PCBs (**Figure 2**).

1.3 Proposed Restrictions

1.3.1 Current Proposed Restrictions

At PCB Area #15, PCBs were detected at a concentration greater than 1 ppm, but less than 10 ppm: however, the surface cover does not meet the requirements of a TSCA cap per 761.61 (a)(7) and (a)(8). Therefore, under current conditions this area will be ***closed as low occupancy.***

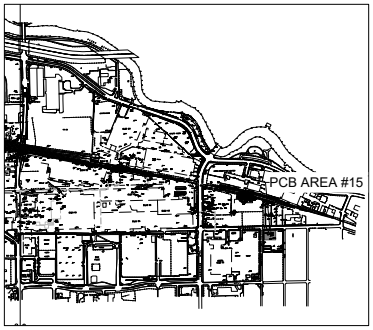
Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

1.3.2 Potential Future Modification

After construction is completed with installation of a cap in accordance with 40 CFR §761.61(a)(7) *[6 inches of concrete or 10" of properly compacted soil]* the deed restriction may be ***modified to high occupancy on the condition the cap remains in place.***

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
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XREFS: IMAGES: PROJECTNAME: ----
X-SAMPLE NETWORK
x-site base
X-BDR-RC-LA



Location ID:		ACSP-B3A	ACSP-B3A	ACSP-B3A	ACSP-B3A	ACSP-B3A
Sample Depth(ft):		0 - 0.5	4 - 6	6 - 8	10 - 12	12 - 14
Date Collected:	Units	05/08/01	05/08/01	05/08/01	05/08/01	05/08/01
Total PCBs	mg/kg	0.038 U	0.042 U	4.7	0.062	0.041 U

Location ID:		SB-ACSP-01	SB-ACSP-01
Sample Depth(ft):		0 - 2	6-8
Date Collected:	Units	12/04/19	12/04/19
Total PCBs	mg/kg	0.33 U	0.33 U

Location ID:		ACSP-B3D	ACSP-B3D	ACSP-B3D	ACSP-B3D	ACSP-B3D
Sample Depth(ft):		0 - 2	5 - 7	7 - 9	10 - 12	12 - 14
Date Collected:	Units	08/17/01	08/17/01	08/17/01	08/17/01	08/17/01
Total PCBs	mg/kg	0.037 U	0.062	0.5	0.074	0.04 [0.068]

Location ID:		SB-ACSP-02	SB-ACSP-02
Sample Depth(ft):		1 - 2	6-8
Date Collected:	Units	12/04/19	12/04/19
Total PCBs	mg/kg	0.33 U	0.33 U

ACSP–B3K
ACSP–B3D
SB–ACSP–01
ACSP–B3/B3A/TW–3
ACSP–B3E
SB–ACSP–02
ACSP–B4/B4A
ACSP–B4B

LEGEND:

- EXTENT OF PROPOSED PCB AREA RESTRICTION
- LOCATION WHERE PCBS ARE GREATER THAN 1 PPM
- LOCATION WHERE PCBS ARE LESS THAN 1 PPM

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

0 30' 60'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.71 (c) REQUEST

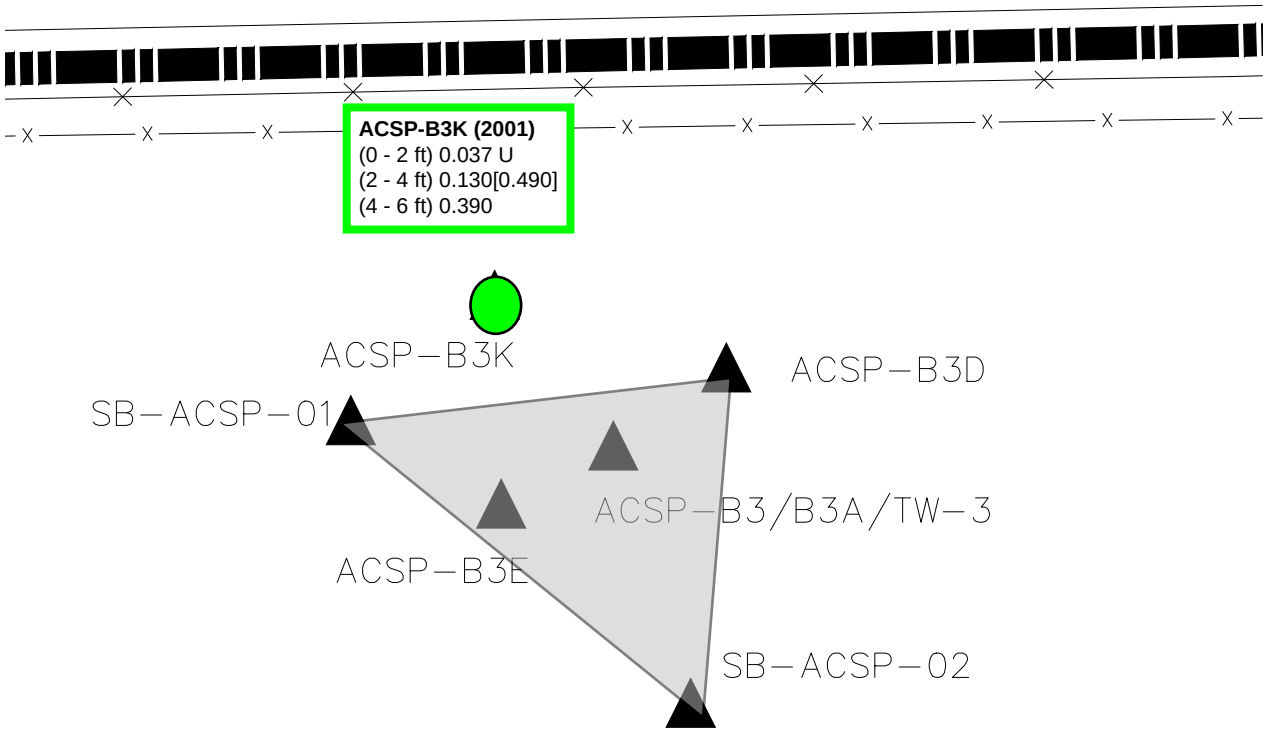
PCB AREA #15 EXCEEDANCE AND DELINEATION LOCATIONS

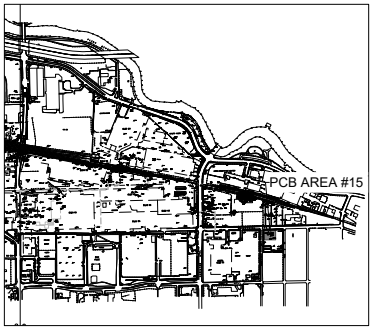
ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\alsanchez\BIM 360\Arcadis\ANA - RACER TRUST\Project Files\Buick City RCRA\2020\30006800\01-DWG\RTBC-RC-SITE PLANS PCB.dwg LAYOUT: 17 SAVED: 3/4/2020 7:12 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 3/4/2020 7:17 PM BY: SANCHEZ, ADRIAN

XREFS: IMAGES: PROJECTNAME: ----
X-SAMPLE NETWORK
x-site base
X-BDR-RC-LA



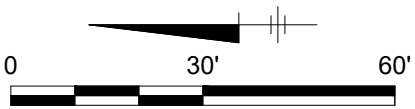


LEGEND:

PROPOSED EXTENT OF PCB AREA

LOCATION WHERE PCBS ARE LESS THAN 1 PPM

Notes:
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit



APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

PCB AREA #15 ADDITIONAL DATA

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

Table 1 - PCB Area #15 Delineation Data Summary
RACER Trust, Buick City Site, Flint, Michigan

Location ID: / Sample Depth(ft BGS): / Date Collected:	Units	ACSP-B3A 0 - 0.5 05/08/01	ACSP-B3A 4 - 6 05/08/01	ACSP-B3A 6 - 8 05/08/01	ACSP-B3A 10 - 12 05/08/01	ACSP-B3A 12 - 14 05/08/01	ACSP-B3D 0 - 2 08/17/01	ACSP-B3D 5 - 7 08/17/01
PCB								
Aroclor-1016 (PCB-1016)	mg/kg	0.038 U	0.042 U	0.2 U	0.039 U	0.041 U	0.037 U	0.039 U
Aroclor-1221 (PCB-1221)	mg/kg	0.038 U	0.042 U	0.2 U	0.039 U	0.041 U	0.037 U	0.039 U
Aroclor-1232 (PCB-1232)	mg/kg	0.038 U	0.042 U	0.2 U	0.039 U	0.041 U	0.037 U	0.039 U
Aroclor-1242 (PCB-1242)	mg/kg	0.038 U	0.042 U	0.2 U	0.039 U	0.041 U	0.037 U	0.039 U
Aroclor-1248 (PCB-1248)	mg/kg	0.038 U	0.042 U	0.2 U	0.039 U	0.041 U	0.037 U	0.039 U
Aroclor-1254 (PCB-1254)	mg/kg	0.038 U	0.042 U	0.2 U	0.039 U	0.041 U	0.037 U	0.039 U
Aroclor-1260 (PCB-1260)	mg/kg	0.038 U	0.042 U	4.7	0.062	0.041 U	0.037 U	0.062

Location ID: / Sample Depth(ft BGS): / Date Collected:	Units	ACSP-B3D 7 - 9 08/17/01	ACSP-B3D 10 - 12 08/17/01	ACSP-B3D 12 - 14 08/17/01	SB-ACSP-01A 0 - 2 12/04/19	SB-ACSP-01A 6-8 12/04/19	SB-ACSP-02A 1 - 2 12/04/19	SB-ACSP-02B 6-8 12/04/19
PCB								
Aroclor-1016 (PCB-1016)	mg/kg	0.04 U	0.036 U	0.036 U [0.036 U]	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.04 U	0.036 U	0.036 U [0.036 U]	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.04 U	0.036 U	0.036 U [0.036 U]	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.04 U	0.036 U	0.036 U [0.036 U]	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.04 U	0.036 U	0.036 U [0.036 U]	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.04 U	0.036 U	0.036 U [0.036 U]	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.5	0.074	0.04 [0.068]	0.33 U	0.33 U	0.33 U	0.33 U

Notes:
mg/kg - milligrams per kilogram
ft bgs - feet below ground surface
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

MEMO

To:
Grant Trigger

Copies:
Erin Kozak
Chris Peters

From:
Micki M. Maki

Arcadis of Michigan, LLC
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

Date:
April 4, 2022
Revised May 15, 2023

Arcadis Project No.:
30121887

Subject:
PCB Area #16 – SB-10-30 TSCA Deed Restriction
RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

At PCB Area #16, one sample collected from 1 to 3 feet below ground surface (bgs) detected PCBs at a concentration of 7 parts per million (ppm). Surface cover in the area consists of 0.5 feet of concrete. Consequently, under current conditions this area will be ***closed as high occupancy*** on the condition the concrete cover is maintained. Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

1.1 Background and Geology

Surface cover at PCB Area #16 consists of 0.5 feet of concrete underlain by fill consisting of clay and sand. The fill is underlain by sand. The water table was encountered at approximately 10 feet bgs. PCBs were detected above 1 ppm in a sample collected from 1 to 3 feet bgs which consists of grayish brown clay. The source of this impact is not known.

1.2 PCB Impact and Delineation

PCBs were detected in a soil sample collected from boring SB-10-30 from 1 to 3 feet bgs at a concentration of 7 ppm **(Figure 1, Table 1**). Vertical and horizontal delineation of this impact is detailed below.

1.2.1 Vertical Delineation

- A deeper sample collected at SB-10-30 from 8 to 10 feet bgs did not detect PCBs above 1 ppm; therefore, the vertical delineation is complete.

1.2.2 Horizontal Delineation

- Soil samples collected from borings SB-10-62 (1 to 3, 4 to 6, and 8 to 10 feet bgs), SB-10-63 (1 to 3, 4 to 6, and 8 to 10 feet bgs), SB-10- 78 (1 to 3, 4 to 6, 6 to 7 ft bgs) and SB-10-79 (1 to 3, 4 to 6, and 6 to 8 ft bgs) did not detect PCBs above 1 ppm.

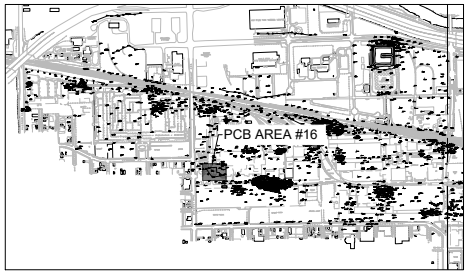
Also, four soil samples collected from three borings completed in the vicinity of PCB Area #16 did not detect PCBs (**Figure 2**).

1.3 Proposed Restrictions

At PCB Area #16, PCBs were detected at a concentration greater than 1 ppm, but less than 10 ppm with a surface cover that meets the requirements of a TSCA cap per 761.61 (a)(7) and (a)(8). Therefore, the area will be ***closed as high occupancy*** on the condition the concrete cover is maintained. Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

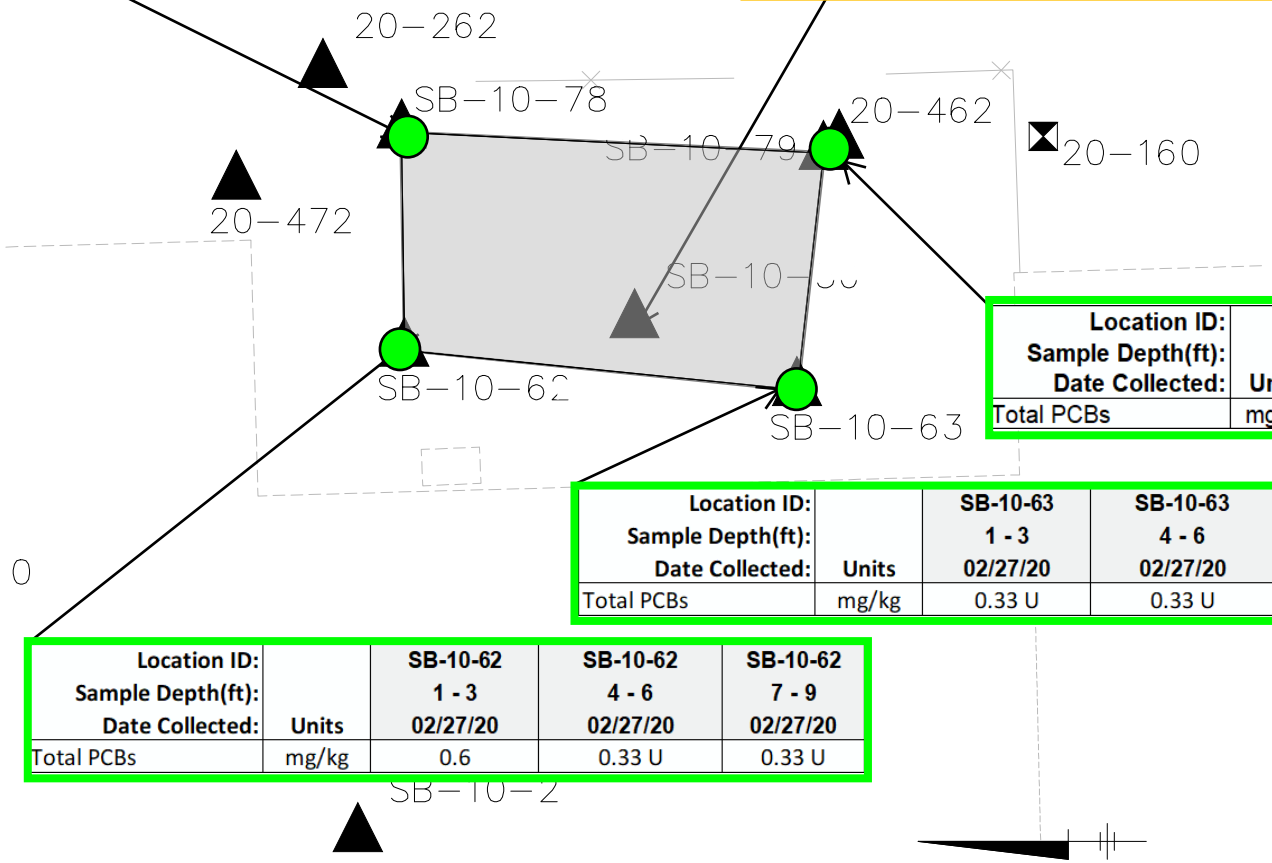
CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\roberlander\OneDrive - ARCADIS\BIM 360 Docs\AUS-RACER TRUST-BUICK CITY-FLINT Michigan\2022\01-In Progress\01-DWG\RTBC-RC-SITE PLANS PCB.dwg LAYOUT: 4R SAVED: 3/28/2022 9:36 AM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 3/28/2022 9:38 AM BY: OBERLANDER, ROSEANNE

XREFS: IMAGES: PROJECTNAME: ----
X-SITE BASE
X-BDR-RC-LA
X-SAMPLE NETWORK



Location ID:		SB-10-78	SB-10-78	SB-10-78
Sample Depth(ft):		1 - 3	4 - 6	6 - 7
Date Collected:	Units	06/18/20	06/18/20	06/18/20
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		SB-10-30	SB-10-30
Sample Depth(ft):		1 - 3	8 - 10
Date Collected:	Units	03/14/19	03/14/19
Total PCBs	mg/kg	7 Y	0.33 U



LEGEND:

EXTENT OF PROPOSED PCB AREA RESTRICTION

LOCATION WHERE PCBS ARE GREATER THAN 1 PPM

LOCATION WHERE PCBS ARE LESS THAN 1 PPM

Notes:

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

Y - Elevated reporting limit due to high target detection limit

Location ID:		SB-10-79	SB-10-79	SB-10-79
Sample Depth(ft):		1 - 3	4 - 6	6 - 7
Date Collected:	Units	06/18/20	06/18/20	06/18/20
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		SB-10-63	SB-10-63	SB-10-63
Sample Depth(ft):		1 - 3	4 - 6	8 - 10
Date Collected:	Units	02/27/20	02/27/20	02/27/20
Total PCBs	mg/kg	0.33 U	0.33 U	0.33 U

Location ID:		SB-10-62	SB-10-62	SB-10-62
Sample Depth(ft):		1 - 3	4 - 6	7 - 9
Date Collected:	Units	02/27/20	02/27/20	02/27/20
Total PCBs	mg/kg	0.6	0.33 U	0.33 U

SB−10−2

0 30' 60'

APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

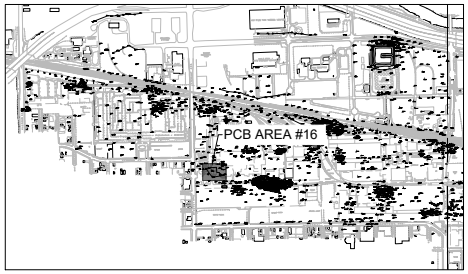
PCB AREA #16 EXCEEDANCE AND DELINEATION LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\roberlander\OneDrive - ARCADIS\BIM 360 Docs\AUS-RACER TRUST-BUICK CITY-FLINT Michigan\2022\01-In Progress\01-DWG\RTBC-RC-SITE PLANS PCB.dwg LAYOUT: 4R SAVED: 3/28/2022 9:36 AM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 3/28/2022 9:38 AM BY: OBERLANDER, ROSEANNE

XREFS: IMAGES: PROJECTNAME: ----
X-SITE BASE
X-BDR-RC-LA
X-SAMPLE NETWORK



20-262 (1991)
(15 - 17.5 ft) 0.033 U

20-462 (1991)
(0 ft) 0.03 U
(10 ft) 0.03 U

20-472 (1991)
(10 ft) 0.03 U

20−262
SB−10−78
SB−10−79
20−462
20−160
20−472
SB−10−62
SB−10−63
SB−10−2

LEGEND:

PROPOSED EXTENT OF PCB AREA

LOCATION WHERE PCBS ARE LESS THAN 1 PPM

0 30' 60'
APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

PCB AREA #16 ADDITIONAL DATA

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

Table 1 - PCB Area # 16 Delineation Data Summary
RACER Trust, Buick City Site, Flint, Michigan

Location ID: Sample Depth(ft BGS): Date Collected:	Units	SB-10-30 1 - 3 03/14/19	SB-10-30 8 - 10 03/14/19	SB-10-62 1 - 3 02/27/20	SB-10-62 4 - 6 02/27/20	SB-10-62 7 - 9 02/27/20	SB-10-63 1 - 3 02/27/20	SB-10-63 4 - 6 02/27/20	SB-10-63 8 - 10 02/27/20
PCB									
Aroclor-1016 (PCB-1016)	mg/kg	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	7 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	1 UY	0.33 U	0.60	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	1 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID: Sample Depth(ft BGS): Date Collected:	Units	SB-10-78 1 - 3 06/18/20	SB-10-78 4 - 6 06/18/20	SB-10-78 6 - 7 06/18/20	SB-10-79 1 - 3 06/18/20	SB-10-79 4 - 6 06/18/20	SB-10-79 6 - 8 06/18/20
PCB							
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Notes:
mg/kg - milligrams per kilogram
ft bgs - feet below ground surface

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
Y- Elevated reporting limit due to high target concentration.

MEMO

ARCADIS Design & Consultancy for natural and built assets

To:

Grant Trigger

Copies:

Erin Kozak

Chris Peters

Arcadis of Michigan, LLC
28550 Cabot Drive
Suite 500
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Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

From:

Micki M. Maki

Date:

April 7, 2022

Revised May 15, 2023

Arcadis Project No.:

30121887

Subject:

PCB Area #17 – Former Building 40 Tunnel TSCA Deed Restriction

RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

At PCB Area #17, during demolition activity one sample of oil collected from water in the former tunnel beneath the Building 40 basement detected PCBs at 2.5 ppm. In the final conditional approval of cleanup activities (dated September 13, 2005) EPA required that the tunnel be restricted with notice of the presence of PCBs. Because the concrete walls, floor and ceiling create a “vault like” containment, under current conditions ***low occupancy closure*** is appropriate***.*** This closure will include a restriction that the tunnel and basement structures be left intact and not be disturbed for construction or development without an approved plan from EGLE and RACER.

1.1 Introduction

The former Building 40 tunnel, located beneath the Building 40 basement, was used to convey materials, personnel, and equipment between former Building 40 and former Building 06-16 assembly areas. The tunnel is approximately 260 feet long by 15 wide and 8.5 feet high. The top of the tunnel roof (basement floor) is approximately 12 feet below ground surface (ft bgs). In 2006, demolition of the Building 40 basement was performed. During the demolition, oil droplets were observed, sampled, and recovered with absorbent booms and pads prior to backfilling the basement/tunnel. An oil sample collected from water in the tunnel during demolition and backfilling of the basement/tunnel detected PCBs at a concentration of 2.5 parts per million (ppm) (**Figure 1**).

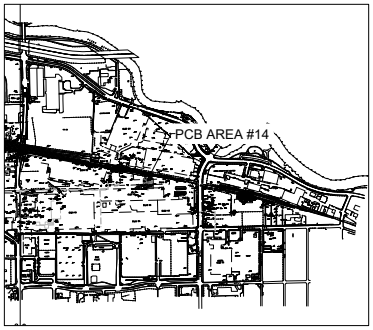
During demolition of the Building 40 basement/tunnel a self-implementing clean-up was completed. As documented in a July 27, 2004 letter from the EPA as well as the *U.S. EPA Final Decision and Response to Comments for Soil and Groundwater Cleanup at The Southend of the Former General Motors Corporation North American Operations (Otherwise known as Buick City)* dated May 13, 2010, the tunnel is required to have an additional deed restriction placed to warn future owners of the presence of PCBs.

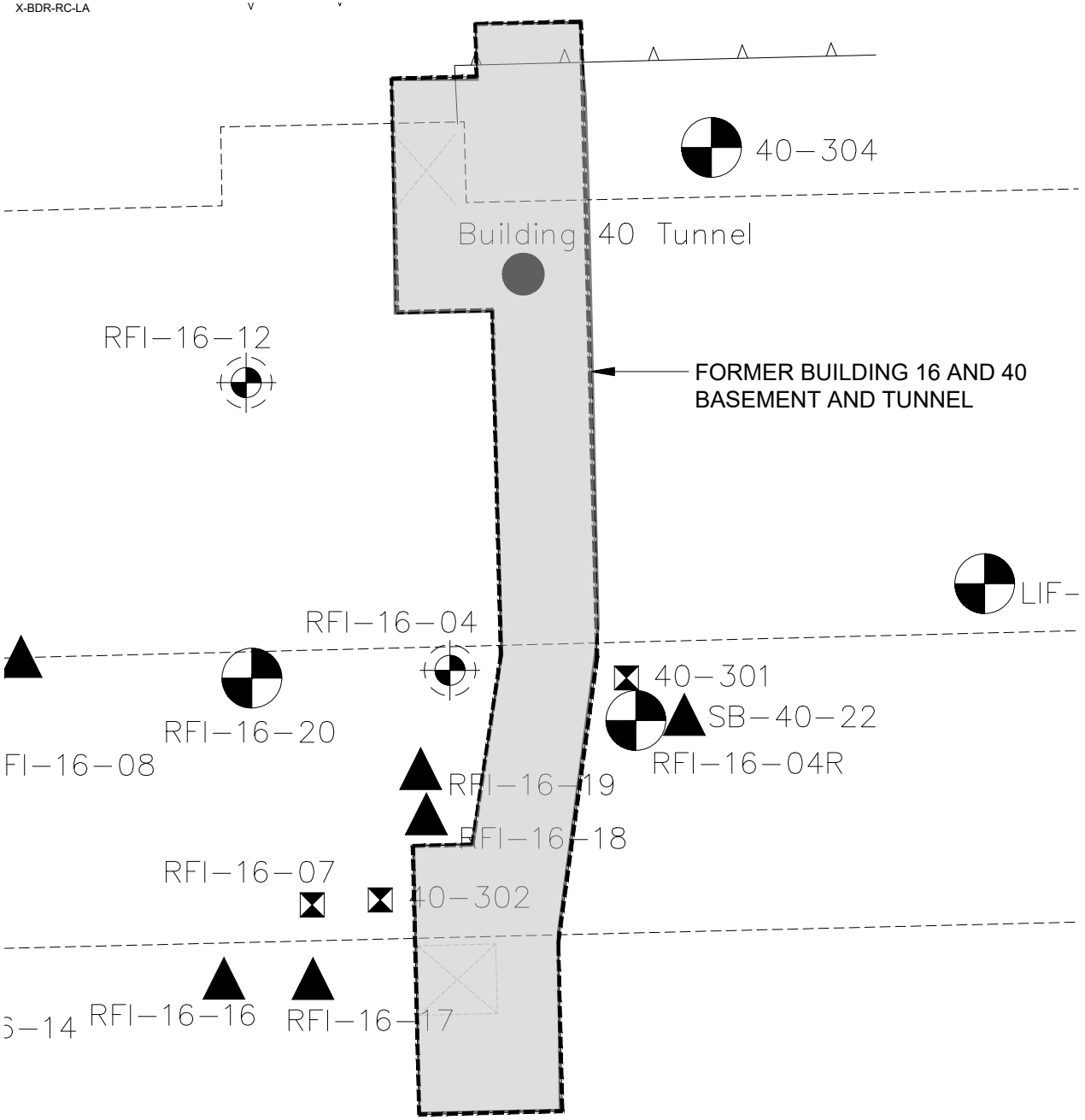
1.2 Proposed Restrictions

At PCB Area #17, PCBs were detected in oil at a concentration greater than 1ppm, but less than 10 ppm in a former tunnel located beneath a basement at the former Building 40 area of the site. Because the concrete walls, floor and ceiling create a “vault like” containment, under current conditions ***low occupancy closure*** is appropriate***.*** This closure will include a restriction that the tunnel and basement structures be left intact and not be disturbed for construction or development without an approved plan from EGLE and RACER.

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\alsanchez\BIM 360\Arcadis\ANA - RACER TRUST\Project Files\Buick City RCRA\2020\30006800\01-DWG\RTBC-RC-SITE PLANS PCB.dwg LAYOUT: 19 SAVED: 3/11/2020 1:31 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 3/13/2020 3:53 PM BY: SANCHEZ, ADRIAN

XREFS: IMAGES: PROJECTNAME: ----
X-SAMPLE NETWORK
x-site base
X-BDR-RC-LA





LEGEND:

APPROXIMATE EXTENT OF PCB AREA

FORMER FEATURE USED FOR DELINEATION

0 30' 60'

APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

PCB AREA #17

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

BBL®
an ARCADIS company

Transmitted Via email

September 7, 2006

Kurt Blizzard
General Motors Corporation
MC: 489-066-055
920 Townsend St.
Lansing, MI 48921

Re: Completion of Demolition and Backfilling
Former Building 40 Basement/Tunnel
GM NAO Flint Operations Site, Flint, Michigan
BBL Project #: 64410.134

Dear Mr. Blizzard:

The letter documents demolition and backfilling activities involving the Former Building 40 basement and underlying tunnel located on the south end of the General Motors Corporation's (GM's) North American Operations (NAO) Flint Operations Site in Flint, Michigan. Blasland, Bouck & Lee, Inc., an ARCADIS company, observed these activities which occurred from June 12 to 21, 2006.

Following a summary of background information, this letter summarizes the related review of analytical data associated with backfill sources used, followed by a review of the demolition of the basement floor and backfilling of the basement and underlying tunnel.

Background

The Building 40 basement area is L-shaped and is approximately 1,900 square feet in size. The ceiling of the basement has been removed and the area is surrounded by a chain link fence. The Building 40 tunnel, located beneath the basement, served to convey materials, personnel, and equipment between former Building 40 and former Building 06/16 assembly areas. The tunnel is oriented in the east-west direction and is approximately 260 feet long by 15 feet wide and 8.5 feet high. The top of the tunnel roof (basement floor) is approximately 12 feet below grade. The tunnel is completely flooded with water, and the water level is approximately 4 feet above the floor of the basement.

The basement floor was cleaned in August 1992 using a foam-applied aqueous-based solvent to extract polychlorinated biphenyls (PCBs) from the concrete floor and the lower 2 feet of the basement walls. Other activities since then have included removal of small quantities (less than 1 quart) of floating oil from the tunnel and basement.

10559 Citation Drive • Suite 100 • Brighton, MI 48116
Tel (810) 229-8594 • Fax (810) 229-8837 • www.bbl-inc.com • Offices Nationwide

In GM's report entitled *Cleanup and Disposal of PCB Remediation Waste, Building 40 Tunnel and Basement* (BBL, January 2004) (hereafter referred to as the Clean up Report), GM outlined plans to remove the basement floor of the former Building 40 by breaking it and allowing it to collapse into the underlying tunnel. The Cleanup Report was submitted to the United States Environmental Protection Agency (USEPA) for review and approval.

On September 28 and 29, 2004 the basement floor/tunnel ceiling of the former Building 40 tunnel was sampled as outlined in a July 27, 2004 letter from GM to the USEPA.

This sampling was conducted to evaluate the effectiveness of August 1992 remedial activities, as well as other subsequent remedial activities, conducted on the former Building 40 basement floor and tunnel. Details concerning these remedial activities are presented in the Cleanup Report. The results of this sampling indicated no detection of PCBs in the basement floor/tunnel ceiling.

USEPA conditionally approved via letter on February 1, 2005 the proposed collapse of the former Building 40 basement floor and the filling of the underlying tunnel as outlined by GM in the Cleanup Report. GM responded to USEPA's February 1 conditional approval via electronic mail (email) on March 1, 2005. After a series of subsequent emails and conference calls, USEPA provided a final conditional approval of these activities via letter dated September 13, 2005, with the following conditions:

1. The water level within the basement must be closely monitored during the demolition of the basement floor and backfilling activities. The backfilling of the tunnel must be performed slowly to allow the water within the basement and tunnel to equilibrate with the added fill material, to prevent any flooding in the surrounding area.

2. After collapsing the basement floor into the tunnel, the basement and remaining areas of the tunnel must be backfilled entirely with clean fill material, which may include clean material from other demolition projects onsite and from offsite sources. The backfill material will be considered as the cap or cover for the collapsed floor and tunnel.

3. During the demolition of the basement floor and backfilling activity, GM and its contractor must visually inspect the water for oil sheens that may appear on the surface of the water. Any oil sheen must be sampled and analyzed following the procedure attached to Derek Kaiding's e-mail message to Tammy Moore dated April 22, 2005, and collected and removed through the use of oil absorbent booms or pads. The PCB concentration of the oil must be reported based on the weight of PCBs per the weight of oil sample. If the oil is found to contain less than 50 ppm PCBs, it must be managed as a liquid PCB remediation waste in accordance with 40 CFR $ 761.61(b)(l), and the absorbent boom or pads may be managed as a bulk PCB remediation waste in accordance with 40 CFR $ 761.61(a)(5)(i)(B)(2)(ii). If the oil is found to contain equal to or greater than 50 ppm PCBs, it must be disposed of in a Toxic Substances Control Act (TSCA) approved PCB incinerator and the absorbent boom or pads must be disposed of in a TSCA approved incinerator or landfill.

4. GM shall record, in accordance with state law, a notation on the deed to the property, or on some other instrument which is normally examined during a title search, that will notify any potential purchaser of the property of the residual PCBs and of the industrial land use restrictions for the property.

5. GM must include the sampling and analysis of the groundwater for PCBs in the long-term groundwater monitoring plan for the area.

Backfill Source Evaluation

BBL facilitated GM's review of analytical data representative of fill from the former Mt. Morris Cement Pit in Mt. Morris, Michigan and the South Flint Gravel, Inc.'s Aldrich Pit located in Davison, Michigan, which GM intended to use for this project. The analytical results obtained from Inland Waters are provided in Attachments 2 and 3.

Soil samples associated with the Mt Morris Cement Pit were collected by Conestoga-Rovers & Associates of Waterloo, Canada (CRA) in February 2004, and were analyzed by STL, Inc., for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and metals. Select metals were the only constituents detected.

Data representing the Aldrich Pit were provided by Inland Waters Pollution Control, Inc. of Detroit, Michigan (IWPC). These soil samples were collected on March 10, 2005, and were analyzed by Brighton Analytical LLC., for VOCs, SVOCs, PCBs, and metals. Select metals were the only constituents detected.

GM determined that the fill from these sources was acceptable based on a comparison to criteria outlined in Part 115 and Part 201 of the Michigan Natural Resource and Environmental Protection Act (NREPA), Public Act 451, as amended (Part 201). The criteria exceedances for both fill sources involved only drinking water-related and/or groundwater surface water interface (GSI)-related criteria or both. Both sources of borrow material were deemed acceptable by GM based on the following:

- Select constituents exceeding drinking water and/or GSI criteria also exceed state default background criteria outlined in Part 201;
- Groundwater in this area is already restricted against drinking via City of Flint Ordinance 9, Code of Ordinances, Chapter 46-25, and GM's Due Care program implemented under Part 201;
- Future groundwater in this area will be further restricted via future deed restrictions; and
- Area is not directly connected to any surface water body.

Demolition and Backfilling

On May 24, 2006, USEPA was provided an email notice that field activities involving the demolition of the former Building 40 basement floor and underlying tunnel filling would commence on June 12, 2006. GM agreed during a conference call with USEPA on August 18, 2005 to provide this notification.

On June 12, 2006, IWPC mobilized heavy equipment to the Former Building 40 tunnel area and demolished the basement floor. The initial water level in the former basement was approximately 8 feet below the surrounding grade.

The following day (June 13, 2006), small amount of oil droplets (1 to 4 inches in diameter) were observed floating on the water surface. The oil was sampled and submitted to Merit Laboratories, Inc. of East Lansing, Michigan (Merit) for analysis of PCBs (total aroclors) in accordance with the approved procedure on a 24-hour turn-around-time. The analysis indicated that the oil contained PCBs at a

concentration of 2.5 parts per million. The oil was recovered using oil absorbent booms and pads prior to basement/tunnel backfilling. The booms and pads were containerized in 55-gallon drums and sampled further for waste characterization, which involved the analysis of VOCs, SVOCS, metals, via Toxic Characteristic Leachate Procedure (TCLP), and ignitability, reactivity, and corrosivity.

On June 14, 15, 16, and 21, 2006, IWPC backfilled the basement and underlying tunnel with approximately 1,810 cubic yards (cy) of fill originating from the sources discussed previously, including approximately 1,450 cy from the Mt. Morris Cement Pit, and approximately 360 cy from the South Flint Gravel, Inc. Aldrich Pit. A photo log is attached which provides before and after photos of the Former Building 40 basement/tunnel project.

Per USEPA's September 13, 2005 conditional approval letter and based on the analytical data from the oil and waste characterization of the booms/pads, the oil-soaked booms and pads were disposed of at Citizens Landfill in Grand Blanc, Michigan, on September 5, 2006. Analytical data and the waste disposal manifest from the oil and oil-soaked booms and pads are attached for reference.

Sincerely,

BLASLAND, BOUCK & LEE, INC.

Derek C. Kaiding, P.E.
Senior Engineer II

MDM/mdm

cc: Mark Lovejoy, P.E., BBL, Inc.
Michael Miller, P.E., BBL, Inc.

Attachments

MEMO

ARCADIS Design & Consultancy for natural and built assets

To:

Grant Trigger

Copies:

Erin Kozak

Chris Peters

Arcadis of Michigan, LLC
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Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

From:

Micki M. Maki

Date:

April 7, 2022

Revised May 15, 2023

Arcadis Project No.:

30121887

Subject:

PCB Areas #18 and #19– Former Factory 10 Basement and Former Factory 05 Heat Treat Basement TSCA Deed Restriction

RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

In 2013 a deed restriction was filed for PCB Areas #18 and #19. PCB contaminated concrete (>1 parts per million [ppm] and <10 ppm) was placed in two former factory basements below 6 feet of crushed concrete, 2 feet of sand/clay fill and 6 inches of gravel cover. Given the extent of existing crushed concrete, soil, and gravel cover, a ***request for low occupancy will be submitted*** for closure. Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.

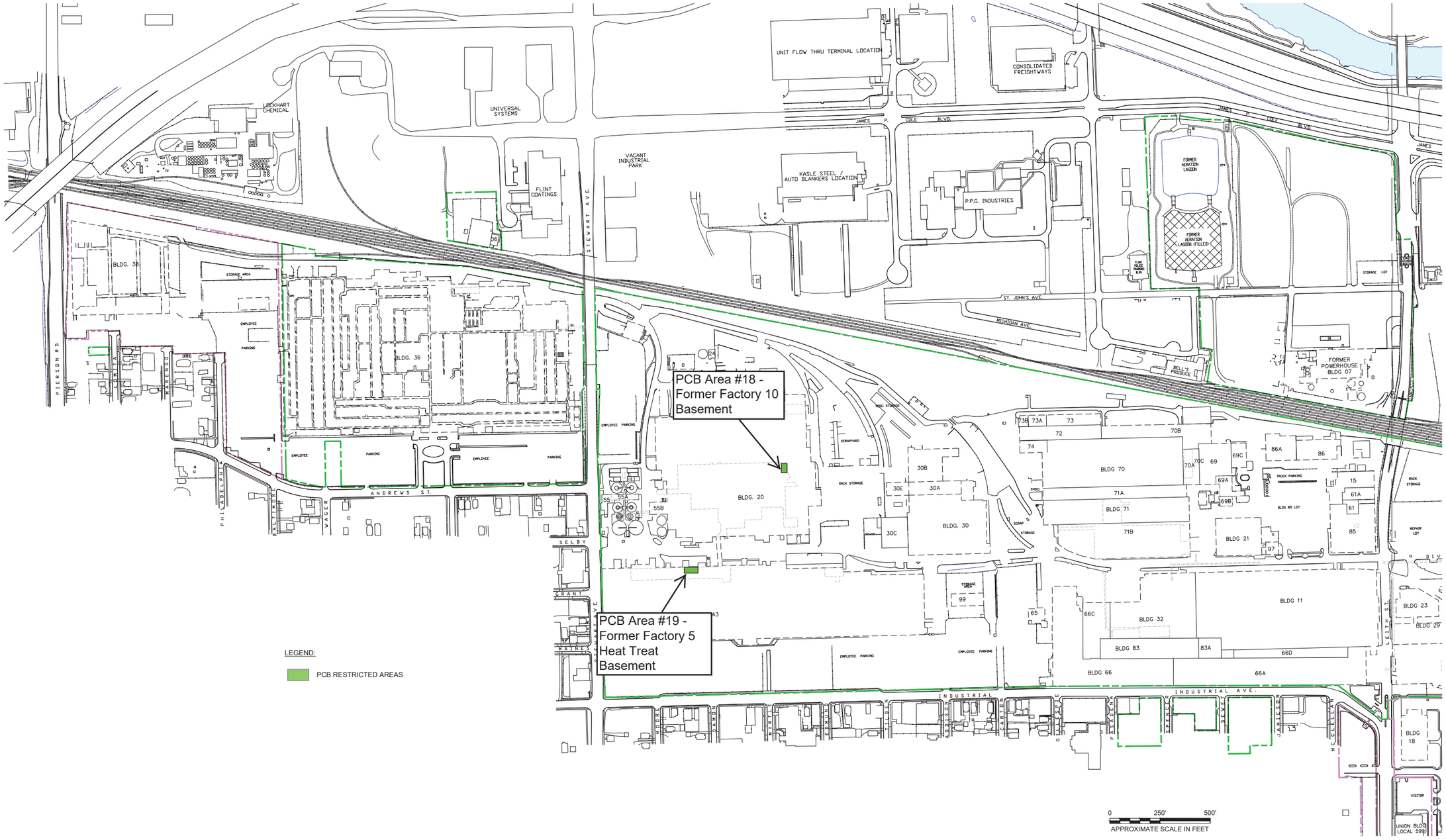
1.0 Introduction

Demolition activities were completed at the Northend of the Buick City site in 2010-2012. During demolition, concrete that was identified as containing PCBs at concentrations greater than 1 ppm and less than 10 ppm was crushed and placed in the Former Factory 10 Basement and the Former Factory 05 Heat Treat Basement (approximate locations presented on **Figure 1**). The PCB-impacted concrete was covered with 6 feet of crushed concrete (containing less than or equal to 1 ppm PCBs), 2 feet of imported consolidated sandy clay fill, and capped with 6 inches of 21AA gravel at the ground surface.

In 2013 a deed restriction was recorded with the Genesee County Register of Deeds in order to restrict unacceptable exposures to bulk PCB remediation waste and to prevent damage or disturbance to the cap in these areas. The restrictive covenant includes an excavation restriction and provided notification of the presence of PCBs. The deed restriction is attached.

1.1 Proposed Restrictions

At PCB Areas #18 and #19, PCBs impacted concrete with PCBs greater than 1 ppm and less than 10 ppm was placed in former basements and capped with 6 feet of crushed concrete, 2 feet of sandy clay fill, and 6-inches of gravel. Given the extent of existing crushed concrete, soil, and gravel cover, a ***request for low occupancy will be submitted*** for closure. Construction in this area may proceed if it is conducted in accordance with the Site's restrictive covenants.



LEGEND:

PCB RESTRICTED AREAS

RACER TRUST BUICK CITY
FLINT, MICHIGAN
EPA 761.61(c) REQUEST

PCB RESTRICTED AREAS #18 AND #19

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

FILE UPDATED 1/15/2020 1:11 PM

CITY: SYRACUSE DIV/GROUP: ENV DB: A.SANCHEZ LD: ALS/GMS PIC: C.S.PETERS PM: C.KIKER TM: C.KIKER LYR: ON=*;OFF=*REF*
C:\Users\alsanchez\BIM 360\Arcadis\ANA - RACER TRUST\Project Files\Buick City RCRA\2020\3000680\001-DWG\RTBC-F-2020 SITE SAMPLE NETWORK.dwg LAYOUT: 2 SAVED: 1/15/2020 1:11 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 2/20/2020 1:20 PM BY: SANCHEZ, ADRIAN

ATTACHMENT 1

201303260046412 03/26/2013
P:1 of 17 F:$62.00 2:19PM
John J. Gleason T20130050249
Genesee County Register MLDAVI

GEN CO REGISTER OF DEEDS
RECEIVED
2013 MAR 26 P 2:19

DECLARATION OF RESTRICTIVE COVENANT

This Declaration of Restrictive Covenant ("Restrictive Covenant") has been recorded with the Genesee County Register of Deeds for the purpose of protecting public health, safety, and welfare, and the environment by prohibiting or restricting activities that could result in unacceptable exposure to environmental contamination present at the RACER Properties, LLC property located at 902 East Leith Street in Flint, Genesee County, Michigan and legally described in Exhibit 1 attached hereto ("Property").

The Property is a portion of the larger former General Motors Corporation (GMC) North American Operations (NAO) facility (otherwise known as Buick City) (United States Environmental Protection Agency [USEPA] Identification Numbers MID005356712 and MIT270010044). Figure 1 shows the location of the Buick City Site as well as the Property.

The Buick City Site is the subject of Corrective Action pursuant to the Resource Conservation and Recovery Act (RCRA), 42 USC § 6901 *et seq*. On September 30, 2011, the USEPA and RACER entered into a RCRA Section 3008(h) Administrative Order on Consent (AOC) RCRA-05-2011-0024 which covers corrective action for past releases of hazardous constituents at or from the subject facility per the requirements of the RCRA of 1976, as amended by the Hazardous and Solid Waste Amendments (HSWA) of 1984.

The Property described contains bulk polychlorinated biphenyl (PCB) remediation waste in excess of the concentrations developed under the Toxic Substances Control Act, 15 U.S.C. §2601 *et seq*, as amended (specifically 40 C.F.R. 761) (TSCA). It is recommended that prospective purchasers or users of the Property undertake appropriate due diligence prior to acquiring or using this Property.

Bulk PCB remediation waste disposal onsite requires the recording of this Restrictive Covenant with the Genesee County Register of Deeds to: 1) restrict unacceptable exposures to bulk PCB remediation waste located on the Property; and 2) to prevent damage or disturbance to the cap constructed on the Property.

Exhibit 1 provides a legal description of the Property that is subject to the restrictions specified herein. The "Survey of Property and Limits of Restrictions", attached as Exhibit 2, provides a survey of the Property that depicts the areas subject to restriction and contains legal descriptions that distinguish those portions of the Property that are subject to use or resource use restrictions specified in this Restrictive Covenant.

17/6/9

This Restrictive Covenant will be recorded with the Genesee County Registry of Deeds to:

1. Restrict the management of all media and/or debris that are excavated or disturbed within the portions of the Property as defined in Exhibit 2.
2. Maintain the cap over PCB-impacted subsurface concrete.

Future changes in the environmental condition of the Property or changes in TSCA; or use of the Property in a manner inconsistent with the restrictions described herein, may result in conditions at the Property not being protective of public health, safety, and welfare, and the environment.

Definitions

For the purposes of this Restrictive Covenant, the following definitions shall apply:

"USEPA" means the United States Environmental Protection Agency, its successor entities, and those persons or entities acting on its behalf.

"Owner" means at any given time the then current title holder of the Property or any portion thereof. The current Owner of the Property is RACER Properties, LLC, the wholly-owned subsidiary of Revitalizing Auto Communities Environmental Response Trust ("Trust") (RACER Properties and the Trust are collectively referred to herein as "RACER"). RACER was established and assumed the rights, title, and interest of Motors Liquidation Company in and to the Property pursuant to an Environmental Response Trust Consent Decree and Settlement Agreement ("Settlement Agreement") entered by the U.S. Bankruptcy Court for the Southern District of New York on March 29, 2011, in the case of *In re Motors Liquidation Company*, etc. et al, Debtors, Case No. 09-50026 (REG), among the Debtors, the United States of America, certain states including the State of Michigan, the Saint Regis Mohawk Tribe, and EPLET, LLC, (not individually but solely in its representative capacity as Administrative Trustee of the Trust).

Summary of Bulk PCB Remediation Waste Activities

Crushed concrete backfill material containing greater than 1 part per million and less than 10 parts per million PCBs, the high occupancy criteria as stated in 40 C.F.R 761.61(a)(4)(i)(A), has been placed in the former Heat Treatment Area of Factory 05 and the former basement of Factory 10. The PCB-impacted crushed concrete has been covered with 6 feet of crushed concrete (containing less than or equal to 1 part per million PCBs), 2 feet of imported consolidated sandy clay fill, and capped with 6 inches of 21AA gravel at the ground surface.

Prospective purchasers or users of the Property should undertake appropriate due diligence prior to acquiring or using this Property.

RACER intends to reserve in any future conveyance by RACER of an interest in all or part of the Property the right to enforce the restrictions and covenants in this Restrictive Covenant for: (1) RACER and (2) USEPA and its authorized representatives, as third party beneficiary.

NOW THEREFORE,

1. Declaration of Restrictions. RACER, as the Owner of the Property, hereby declares and covenants that the Property shall be subject to the following restrictions and conditions and intends that said restrictions and covenants shall run with the land, and may be enforced in perpetuity, or until concrete containing PCB concentrations which exceed 1 part per million per 40 C.F.R. 761.61(a)(4)(i)(A) have been remediated, against the Owner by the following entities: (1) RACER, if it is no longer the Owner; and (2) USEPA and its assigns, as third party beneficiary.

a. Prohibited Activities to Eliminate Unacceptable Exposure to Hazardous Substances. The Owner shall prohibit activities on the Property that may result in exposures to bulk PCB remediation waste at the Property. These prohibited activities include:

Excavation Restriction

The Owner shall consider that any excavation or other intrusive activity within areas of the Property identified as the former Heat Treatment Area of Factory 05 and the former basement of Factory 10 and illustrated and described in Exhibit 2, may require such work to be performed in compliance with 40 CFR 1910.120, and shall prohibit any excavation or other intrusive activity within these areas that could result in the exposure to workers not wearing required personal protective equipment (PPE).

Notification of the Presence of PCBs

The crushed concrete backfill material containing greater than 1 part per million and less than 10 parts per million PCBs has been placed in the former Heat Treatment Area of Factory 05 and the former basement of Factory 10. The PCB-impacted broken concrete has been covered with 6 feet of crushed concrete (containing less than or equal to 1 part per million PCBs), 2 feet of imported consolidated sandy clay fill, and 6 inches of 21AA gravel at the ground surface.

b. Prohibited Activities to Ensure the Effectiveness and Integrity of the Cap. The Owner shall prohibit activities on the Property that may interfere with any element of the cap, including the performance of operation and maintenance activities, monitoring, or other measures necessary to ensure the effectiveness and integrity of the cap implemented at the Property. If a breach of the cap is discovered that affects the integrity of the cap, repairs shall begin within 72 hours of the discovery of the breach.

d. Contaminated Media Management. The Owner shall manage all media and/or debris located within the portions of the Property described and illustrated in Exhibit 2 in accordance with the applicable requirements of Section 761 of 40 C.F.R. (TSCA); Subtitle C of the Resource Conservation and Recovery Act, 42 U.S.C. Section 6901 *et seq.*; the administrative rules promulgated thereunder; and all other relevant state and federal laws.

2. Access. RACER and its successors in title grants to the USEPA and their designated representatives the right to enter the Property at reasonable times for the purpose of determining and monitoring compliance with the restrictive covenant, including the right to take samples, inspect any records relating to the restrictive covenant, and to perform any actions necessary to maintain compliance with all Administrative Orders on Consent for corrective action at the Property.

3. Restrictive Covenant Removal. The Owner may remove the Restrictive Covenant no earlier than 30 days after cleanup activities have been completed to remediate PCB-impacted media to levels below cleanup levels specified in 40 C.F.R. 761.61(a)(4)(i)(A) and after the written approval of the USEPA.

4. Term of Restrictive Covenant. This Restrictive Covenant shall run with the Property and shall be binding on the Owner; future owners; and their successors and assigns, lessees, easement holders, and any authorized agents, employees, or persons acting under their direction and control. This Restrictive Covenant shall continue in effect until the USEPA or its successor determines that PCB-impacted media no longer present an unacceptable risk to the public health, safety, or welfare, or the environment. This Restrictive Covenant may only be modified or rescinded with the written approval of the USEPA.

5. Enforcement of Restrictive Covenant. RACER is entitled to enforce the restrictions and covenants in this Restrictive Covenant by specific performance or other legal action in a court of competent jurisdiction against subsequent Owners of all or part of the Property. RACER, on behalf of itself and its successors in title, intends and agrees that the USEPA may enforce the restrictions and covenants set forth in this Restrictive Covenant by specific performance or other legal action in a court of competent jurisdiction against RACER, as Owner, and thereafter against subsequent Owners of all or a part of the Property. All remedies available hereunder shall be in addition to any and all other remedies at law or equity.

6. Severability. If any provision of this Restrictive Covenant is held to be invalid by any court of competent jurisdiction, the invalidity of such provision shall not affect the validity of any other provisions hereof, and all such other provisions shall continue unimpaired and in full force and effect.

7. Notification of Inconsistent Activities. The Owner shall provide written notice to RACER and USEPA within seven days of the time the Owner becomes aware of any activities that are inconsistent with the restrictions and covenants in this Restrictive Covenant.

8. Access. RACER hereby reserves unto itself, its representatives, contractors, and assigns, the right of access to, and an easement to and over, the Property to enter the Property with persons and such equipment as determined necessary in RACER's sole discretion and judgment to implement any remediation and corrective actions required under the environmental laws. Notwithstanding the foregoing, prior to entering onto the Property pursuant to this provision, RACER shall provide subsequent Owners of all or part of the Property reasonable notice. Subsequent Owners of all or part of the Property shall be entitled to escort RACER, or its agent, employees or contractors onto the Property and observe all of RACER's activities, and RACER shall comply with all applicable laws and regulations in connection with RACER's access to the Property. RACER's and the Trustee's liability is limited by the terms and conditions of the Settlement Agreement, which are incorporated herein by reference.

9. Notices. Notices pursuant to this Restrictive Covenant shall be made to the following:

To RACER:
RACER Trust
Attn: Michigan Cleanup Manager
2930 Ecorse Road
Ypsilanti, Michigan 48198

To U.S. EPA:
U.S. Environmental Protection Agency
Attn: Director, Land and Chemicals Division
77 West Jackson Blvd.
Chicago, Illinois 60604

10. List of Exhibits:

Exhibit 1 – Legal Description of Property
Exhibit 2 – Survey of Property and Limits of Restrictions

11. List of Figures:

Figure 1 – Site Location Map
Figure 2 – Factory 05 and Factory 10 Areas to be Deed Restricted

12. Authority to Execute Restrictive Covenant. The undersigned person executing this Restrictive Covenant is the Owner, or has the express written permission of the Owner, and represents and certifies that he or she is duly authorized and has been empowered to execute and deliver this Restrictive Covenant.

[REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK. SIGNATURE PAGES TO FOLLOW.]

IN WITNESS WHEREOF, RACER PROPERTIES LLC has caused this Restrictive Covenant, to be executed on this 7th day of February 2013

RACER PROPERTIES LLC

By: EPLET, LLC, a Delaware limited liability company, acting solely in its representative capacity as Non-Member Manager

By: _____
Elliott P. Laws, not individually, but acting solely in his representative capacity as Managing Member of EPLET, LLC

STATE OF MICHIGAN
COUNTY OF ~~WASHTENAW~~ Oakland

The foregoing instrument was acknowledged before me this 2/7/13 **[*date*]** by Elliott P. Laws, not individually, but acting solely in his capacity as Managing Member of EPLET, LLC, a Delaware limited liability company acting solely in its representative capacity as Non-Member Manager of RACER Properties LLC, a Delaware limited liability company, and in its capacity as Administrative Trustee of Revitalizing Auto Communities Environmental Response Trust, a New York trust, on behalf of said limited liability company and said trust.

_____
Notary Public Signature

TRACIE L. NICHOLS
Notary Public, State of Michigan
County of Oakland
My Commission Expires 03-19-2017
Acting in the County of Wayne

Name of Notary Public Tracie Nichols
Notary Public, State of Michigan
County of Oakland
My Commission Expires: 3/19/17
Acting in the County of Wayne

This document is exempt from state and county transfer taxes pursuant MCL 207.505(a) and MCL 207.526(a).

Prepared by and when recorded return to:

David Favero
RACER Trust
2930 Ecorse Road
Ypsilanti, MI 48198

CONSENT OF OWNER

RACER PROPERTIES LLC, the current and legal Owner of the Property, does hereby consent to the recording of this Restrictive Covenant, and authorizes RACER PROPERTIES LLC to file the Restrictive Covenant with the Genesee County Register of Deeds for recording.

RACER PROPERTIES LLC

By: EPLET, LLC, a Delaware limited liability company, acting solely in its representative capacity as Non-Member Manager

By: _____
Elliott P. Laws, not individually, but acting solely in his representative capacity as Managing Member of EPLET, LLC

STATE OF MICHIGAN
COUNTY OF ~~WASHTENAW~~ Oakland

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_____
Notary Public Signature

TRACIE L. NICHOLS
Notary Public, State of Michigan
County of Oakland
My Commission Expires 03-19-2017
Acting in the County of Wayne

Name of Notary Public Tracie Nichols
Notary Public, State of Michigan
County of Oakland
My Commission Expires: 3/19/17
Acting in the County of Wayne

EXHIBIT 1

LEGAL DECRIPTION OF PROPERTY

Exhibit 1 – Legal Description of Property

Heat Treatment Area

A deed restriction being over an across the below described parcel "5": Commencing at a point on the west line of Lot 213 Buick Park Plat Liber 4 Page 8 6.00' south of the NW corner of said Lot 213; thence along the east right of way of Industrial Avenue thence S 01°26'08"E 435.84 feet, thence S 87°09'18"W 583.07 feet to the POINT OF BEGINNING; thence N 01°11'18"W 74.35 feet; thence N 89°29'01"E 29.74 feet; thence S 00°49'40"E 76.06 feet thence N 87°09'18"W 29.33 feet to the point of beginning. Containing 0.05 acres and being subject to any and all easements of record.

F-10 Main Basement

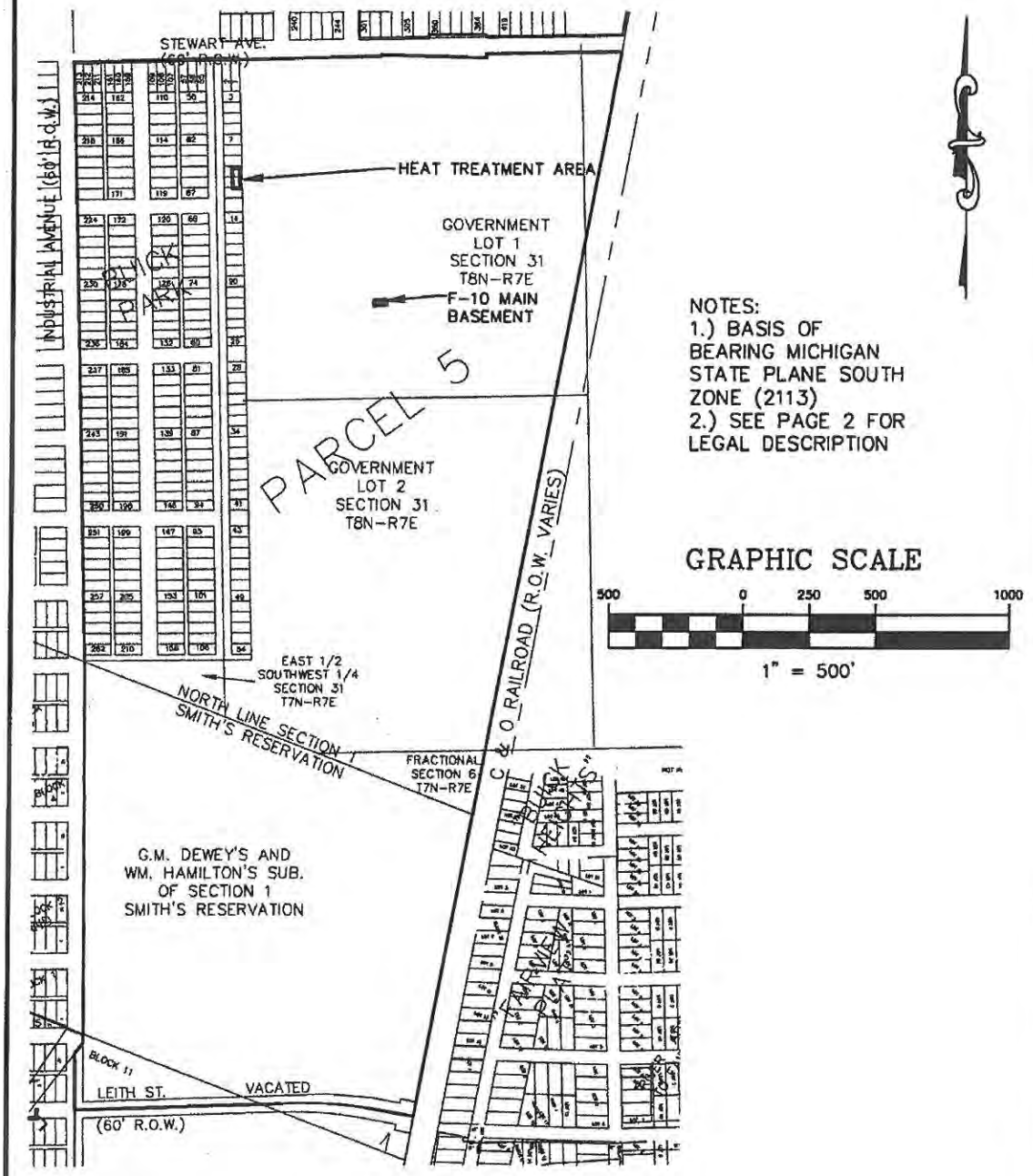
A deed restriction being over an across the below described parcel "5": Commencing at a point on the west line of Lot 213 Buick Park Plat Liber 4 Page 8 6.00' south of the NW corner of said Lot 213; thence along the east right of way of Industrial Avenue thence S 01°26'08"E 992.03 feet, thence N 85°30'59"E 1104.03 feet to the POINT OF BEGINNING; thence N 00°16'19"W 18.54 feet; thence N 87°18'41"E 44.83 feet; thence S 02°31'30"E 17.09 feet thence N 85°30'59"W 45.59 feet to the point of beginning. Containing 0.02 acres and being subject to any and all easements of record.

LEGAL DESCRIPTION PARCEL "5" (per Tax Description 07-31-401-008-1)
Lots 1 thru 262 inclusive "Buick Park", Liber 4 of Plats, page 8, also a contiguous unplatted part of fractional Section 31, T8N-R7E described as: That part of Government Lots 1 and 2 lying westerly of westerly line of C & 0 Railroad R.O. W. and southerly of southerly line of Stewart Avenue; except that part of Government Lot 1 described as: Commencing at intersection of north line of Stewart Avenue as platted and east line of Horton Avenue as platted; thence N 00'19' E along said east line, 60.00 feet; thence N 89'41' W 30.00 feet to centerline of said Horton Avenue; thence S 00'19' W along said centerline 119.72 feet to south line of Stewart Avenue; thence N 89'48' 45" W along said south line 130.02 feet to P.O.B. of this exception; thence S 87'10'45" E 371.62 feet; thence N 00'38'45" W 15.52 feet; thence S 89'48'45" E 501.35 feet to westerly R.O. W. line of C & 0 Railroad; thence N 11'57' E along said westerly line 1.60 feet to southerly line of Stewart Avenue; thence N 89'48'45" W along said southerly line 872.68 feet to P.O.B.; also excepting that part of Government Lot 1 and that part of Lots 1, 2, 55, 56, 57, 107, 108, 109, 159, 160, 161, 211, 212 & 213, "Buick Park", Liber 4 of Plats, page 8, described as: Commencing at intersection of North line of Stewart Avenue with east line of Horton Avenue as platted in "Maplewood Annex No. 1", Liber 5, page 21; thence N 00'19' E along said east line 60.00 feet; thence N 89'41' W 30.00 feet to centerline of said Horton Avenue; thence S 00'19' W along said centerline 119.72 feet; thence N 89'48' 45" W 150.00 feet; thence S 00'11'15" W 5.58 feet; thence S 89'48'15" W 1149.51 feet to east line of Industrial Avenue as platted in "Buick Park", Liber 4 of Plats, page 8; thence N 00'04'45" W along said east line 6.00 feet to northwest earner of Lot 213 "Buick Park", Liber 4 of Plats, page 8; thence N 89'49' 30" E 1149.51 feet to P.O.B.; also that part of east 1/2 of southeast 1/4 of said

fractional section lying westerly of westerly line of said Railroad and southerly of southerly line of Stewart Avenue; also that part of east 1/2 of fractional southwest 1/4 of said fractional section lying southerly of southerly line of plat of "Buick Park", Liber 4 of Plats, page 8; also that contiguous unplatted part of fractional Section 6, T7N-R7E lying westerly of westerly line of said Railroad R.O. W.; also that contiguous platted part of "G.M. Dewey's and Wm. Hamilton's Subdivision of Section No. 1, Smith's Reservation", Liber 18 of Plats, page 9, lying easterly of easterly line of Industrial Avenue, westerly of westerly line of said Railroad R.O.W. and northerly of northerly line of Leith Street (said northerly line described as: Commencing at southeasterly corner of Lot 22, Block 11, "Fairview", Liber 3 of Plats, page 17; thence N 11'56' E along easterly line of said lot 30.00 feet; thence N 78'05' W 215.20 feet to westerly line of said Railroad R.O. W.; thence N 11'56' E along said westerly line 65.00 feet to northerly line of Leith Street for P.O.B.; thence N 78'05' W 60.00 feet; thence S 11'56' W 15.00 feet; thence N 78'05' W 110.00 feet; thence N 83'44'16" W 165.00 feet; thence S 89'58'26" W 173.40 feet; thence S 89'55' W 734.40 feet to the easterly line of Industrial Avenue for P.O.E.); also that contiguous platted part of Block 11, "Parkland", Liber 3 of Plats, page 18, lying northerly of said northerly line of Leith Street. Also including, that part of adjoining vacated Leith Street lying northerly of the centerline of said street.

EXHIBIT 2

SURVEY OF THE PROPERTY AND LIMITS OF RESTRICTIONS



LEGEND

- ○ SET 1/2" IRON WITH CAP
- □ SET CONCRETE MONUMENT
- ● FOUND PROPERTY IRON
- ■ FOUND CONCRETE MONUMENT
- FENCE LINE
- GOVERNMENT CORNER
- CENTERLINE
- RIGHT-OF-WAY LINE
- (R) RECORDED DATA
- (M) MEASURED DATA
- (C) CALCULATED DATA

STATE OF MICHIGAN
CAROLYN R. HUNTER
PROFESSIONAL SURVEYOR
46670
LICENSED PROFESSIONAL SURVEYOR

SURVEYOR'S CERTIFICATE:
AS A PROFESSIONAL SURVEYOR IN THE STATE OF MICHIGAN, I HEREBY STATE that the survey work hereon delineated has been performed under my supervision.

Carolyn R. Hunter, P.S. No. 46670

SKETCH OF DEED RESTRICTION

OVERALL SKETCH OF DEED RESTRICTIONS, OVER AND ACROSS PARCEL "5", TAX # 07-31-401-008-1, CITY OF FLINT, GENESEE COUNTY, MI FOR: ARCADIS

BMJ ENGINEERS & SURVEYORS, INC.
CIVIL ENGINEERS & LAND SURVEYORS
519 HURON AVE. PORT HURON, MI 48060
TEL: 810-984-5596 FAX: 810-984-8760
Web Page: www.bmjinc.com
Email: mail@bmjinc.com

SCALE: 1"=500'		DATE: 4-24-12	
SURVEYED: DB	DRAWN: CMF	CHK'D: CRH	
JOB NO. 0212.1524	PAGE 1 OF 4		

LEGAL DESCRIPTION PARCEL "5" (per Tax Description 07-31-401-008-1)

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- (R) RECORDED DATA
- (M) MEASURED DATA
- (C) CALCULATED DATA

STATE OF MICHIGAN CAROLYN R. HUNTER 46670 LICENSED PROFESSIONAL SURVEYOR

SURVEYOR'S CERTIFICATE:
AS A PROFESSIONAL SURVEYOR IN THE STATE OF MICHIGAN, I HEREBY STATE that the survey work hereon delineated has been performed under my supervision.

Carolyn R. Hunter, P.S. No. 46670

SKETCH OF DEED RESTRICTION

OVERALL SKETCH OF DEED RESTRICTIONS, OVER AND ACROSS PARCEL "5", TAX # 07-31-401-008-1, CITY OF FLINT, GENESEE COUNTY, MI
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Web Page: www.bmjinc.com
Email: mail@bmjinc.com

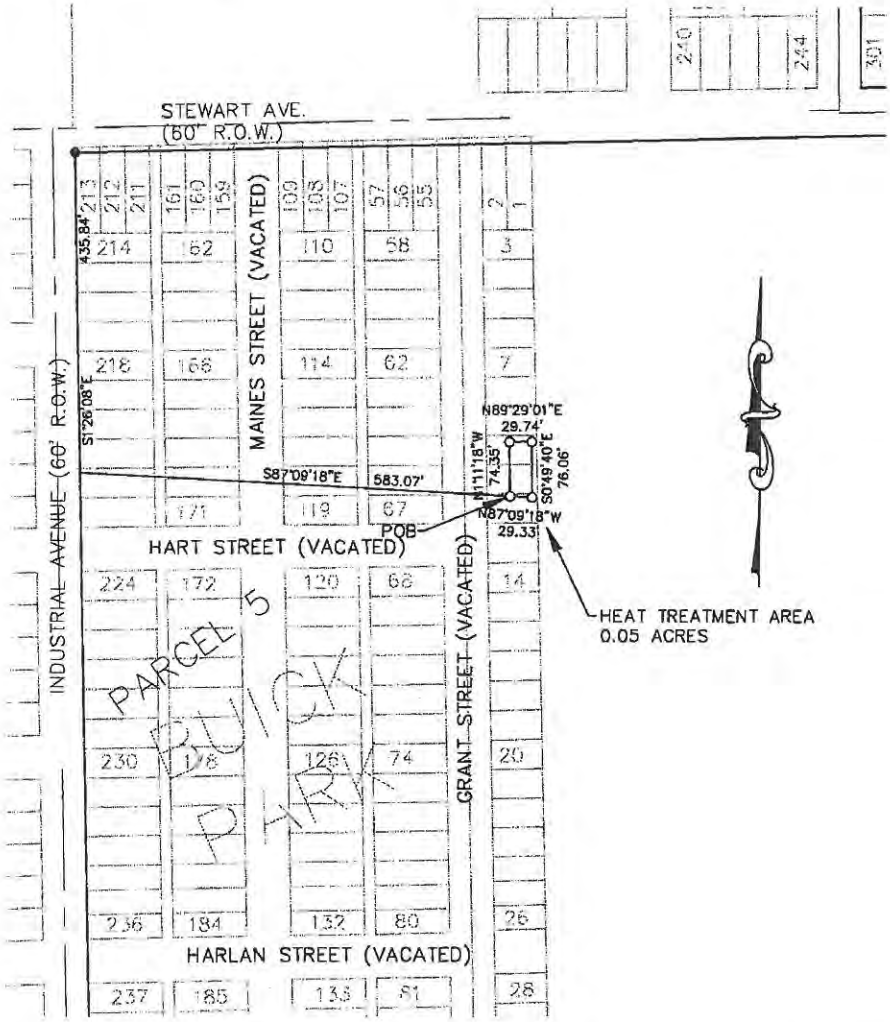
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SURVEYED: NA	DRAWN: CMF	CHK'D: CRH	
JOB NO. 0212.1524	PAGE 2 OF 4		

GRAPHIC SCALE

200 0 100 200 400

1" = 200'

NOTES:
1.) BASIS OF BEARING MICHIGAN STATE PLANE SOUTH ZONE (2113)



DESCRIPTION OF HEAT TREATMENT AREA:
COMENNING AT A POINT ON THE WEST LINE OF LOT 213 BUICK PARK PLAT LIBER 4 PAGE 8 6.00' SOUTH OF THE NW CORNER OF SAID LOT 213; THENCE ALONG THE EAST RIGHT OF WAY OF INDUSTRIAL AVENUE S01°26'08"E 435.84 FEET, THENCE S87°09'18"E 583.07 FEET TO THE POINT OF BEGINNING; THENCE N01°11'18"W 74.35 FEET; THENCE N89°29'01"E 29.74 FEET; THENCE S00°49'40"E 76.06 FEET THENCE N87°09'18"W 29.33 FEET TO THE POINT OF BEGINNING. CONTAINING 0.05 ACRES.

LEGEND

- O SET 1/2" IRON WITH CAP #46670
- □ SET CONCRETE MONUMENT
- ● FOUND PROPERTY IRON
- ■ FOUND CONCRETE MONUMENT
- FENCE LINE
- GOVERNMENT CORNER
- CENTERLINE
- RIGHT-OF-WAY LINE
- (R) RECORDED DATA
- (M) MEASURED DATA
- (C) CALCULATED DATA

STATE OF MICHIGAN
CARLYN R. HUNTER
PROFESSIONAL SURVEYOR
46670
LICENSED PROFESSIONAL SURVEYOR

SURVEYOR'S CERTIFICATE:
AS A PROFESSIONAL SURVEYOR IN THE STATE OF MICHIGAN, I HEREBY STATE that the survey work hereon delineated has been performed under my supervision.

Carolyn R. Hunter, P.S. No. 46670

SKETCH OF DEED RESTRICTION

SKETCH OF DEED RESTRICTION FOR HEAT TREAMENT AREA, OVER AND ACROSS PARCEL "5", TAX # 07-31-401-008-1, CITY OF FLINT, GENESEE COUNTY, MI FOR: ARCADIS

BMJ ENGINEERS & SURVEYORS, INC.
CIVIL ENGINEERS & LAND SURVEYORS
519 HURON AVE. PORT HURON, MI 48060
TEL: 810-984-5596 FAX: 810-984-8760
Web Page: www.bmjinc.com
Email: mail@bmjinc.com

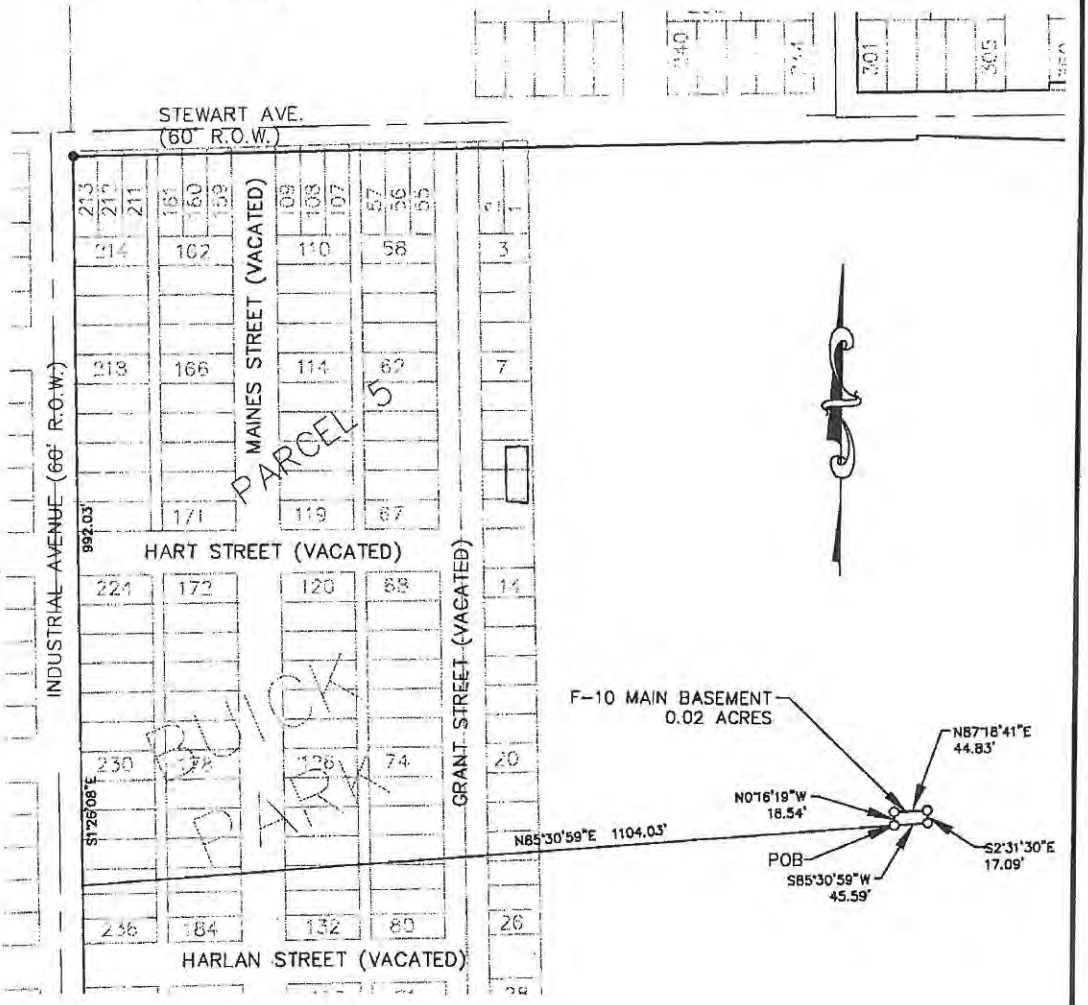
SCALE: 1"=200'		DATE: 4-24-12	
SURVEYED: DB	DRAWN: CMF	CHK'D: CRH	
JOB NO. 0212.1524	PAGE 3 OF 4		

GRAPHIC SCALE

200 0 100 200 400

1" = 200'

NOTES:
1.) BASIS OF BEARING MICHIGAN STATE PLANE SOUTH ZONE (2113)



DESCRIPTION OF F-10 MAIN BASEMENT:
COMENNING AT A POINT ON THE WEST LINE OF LOT 213 BUICK PARK PLAT LIBER 4 PAGE 8 6.00' SOUTH OF THE NW CORNER OF SAID LOT 213; THENCE ALONG THE EAST RIGHT OF WAY OF INDUSTRIAL AVENUE S01°26'08"E 992.03 FEET, THENCE N85°30'59"E 1104.03 FEET TO THE POINT OF BEGINNING; THENCE N00°16'19"W 18.54 FEET; THENCE N87°18'41"E 44.83 FEET; THENCE S02°31'30"E 17.09 FEET THENCE N85°30'59"W 45.59 FEET TO THE POINT OF BEGINNING. CONTAINING 0.02 ACRES.

LEGEND

- ○ SET 1/2" IRON WITH CAP #46870
- □ SET CONCRETE MONUMENT
- ● FOUND PROPERTY IRON
- ■ FOUND CONCRETE MONUMENT
- FENCE LINE
- GOVERNMENT CORNER
- CENTERLINE
- RIGHT-OF-WAY LINE
- (R) RECORDED DATA
- (M) MEASURED DATA
- (C) CALCULATED DATA

STATE OF MICHIGAN CAROLYN R. HUNTER PROFESSIONAL SURVEYOR 46870 LICENSED PROFESSIONAL SURVEYOR

SURVEYOR'S CERTIFICATE:
AS A PROFESSIONAL SURVEYOR IN THE STATE OF MICHIGAN, I HEREBY STATE that the survey work hereon delineated has been performed under my supervision.

Carolyn R. Hunter

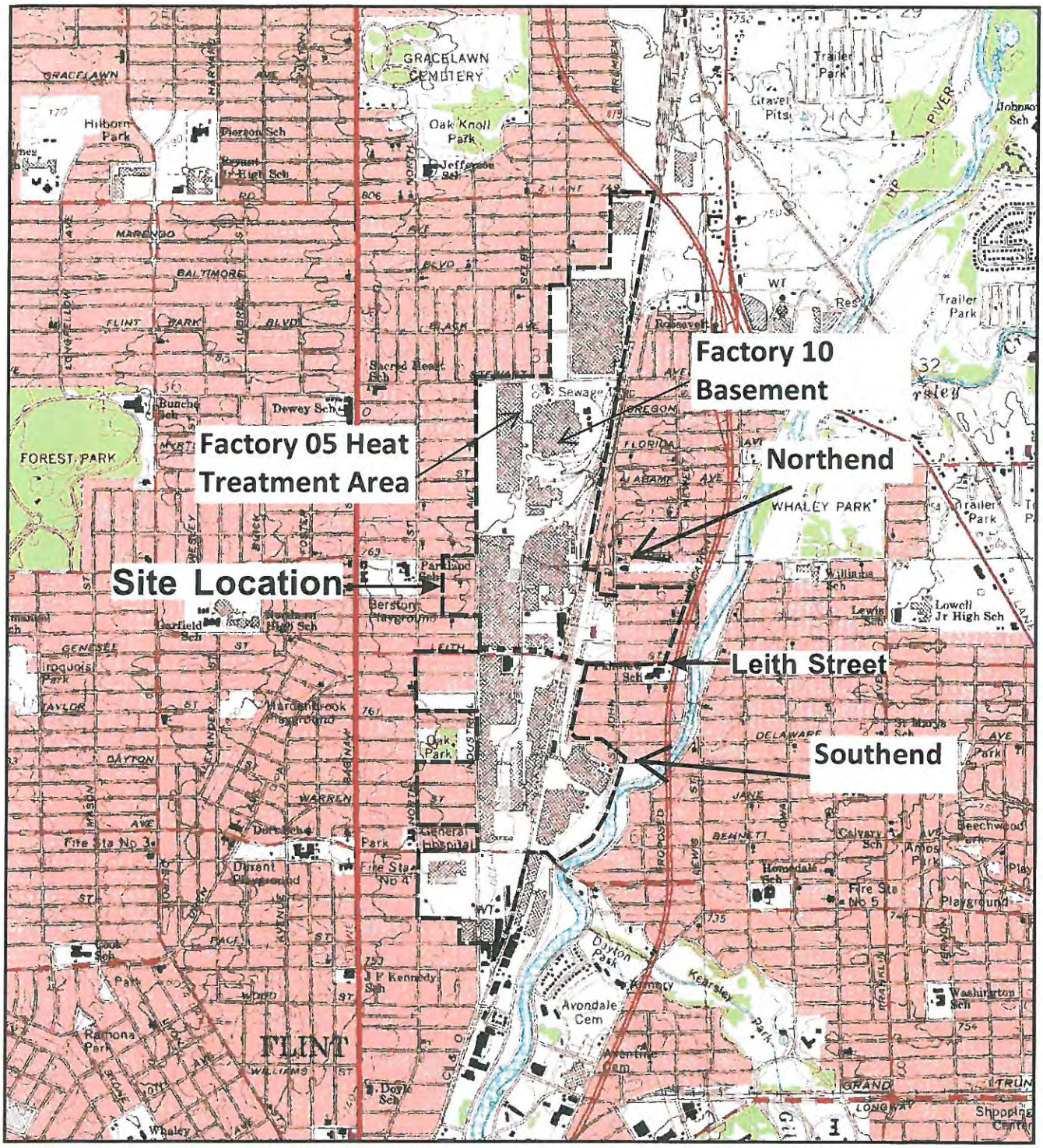
Carolyn R. Hunter, P.S. No. 46870

SKETCH OF DEED RESTRICTION

SKETCH OF DEED RESTRICTION FOR F-10 MAIN BASEMENT, OVER AND ACROSS PARCEL "5", TAX # 07-31-401-008-1, CITY OF FLINT, GENESEE COUNTY, MI
FOR: ARCADIS

BMJ ENGINEERS & SURVEYORS, INC.
CIVIL ENGINEERS & LAND SURVEYORS
519 HURON AVE. PORT HURON, MI 48060
TEL: 810-984-5595 FAX: 810-984-8760
Web Page: www.bmjinc.com
Email: mail@bmjinc.com

SCALE: 1"=200'		DATE:	4-24-12
SURVEYED: DB	DRAWN: CMF	CHK'D:	CRH
JOB NO. 0212.1524		PAGE	4 OF 4



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Location

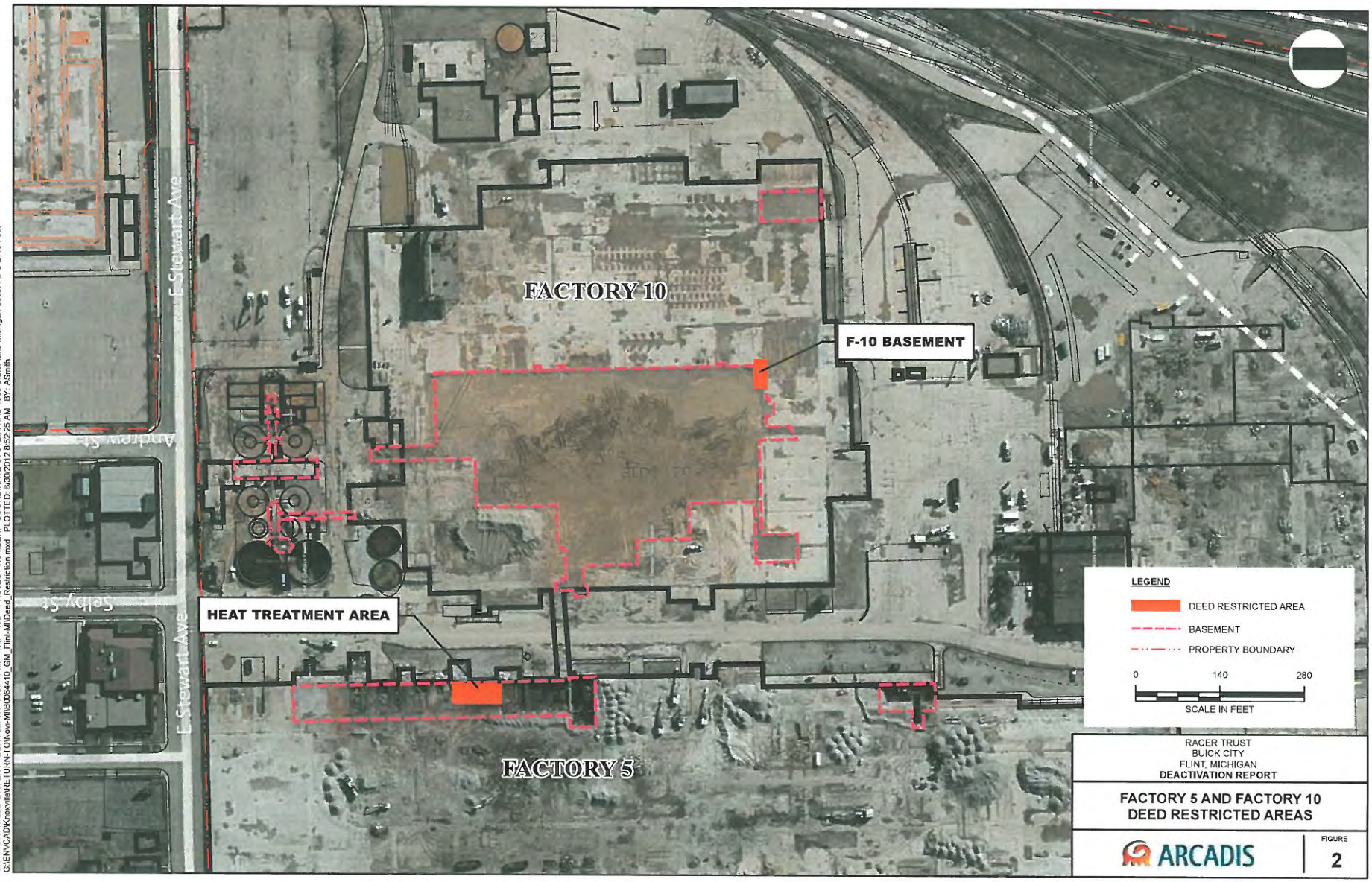
RACER TRUST
BUICK CITY - FLINT, MICHIGAN

SITE LOCATION

ARCADIS

FIGURE
1

05/07/2012 SYRACUSE_NY-ENV/CAD-DJHOWES
B0064410/4012/00104/CDR/64410N02.CDR



RACER TRUST
BUICK CITY
FLINT, MICHIGAN
DEACTIVATION REPORT

FACTORY 5 AND FACTORY 10 DEED RESTRICTED AREAS

ARCADIS

FIGURE
2

CITY: KNOXVILLE DIV: ENV DB: A.SMITH PIC: PM: TM: TR: PROJECT NUMBER: COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
G:\ENV\CAD\Knoxville\RETURN-TO\Novi-MI\B0064410_GM_Flint-MI\Deed_Restriction.mxd PLOTTED: 9/30/2012 8:52:25 AM BY: ASmith

MEMO

To:

Grant Trigger

Copies:

Chris Peters

Erin Kozak

Arcadis of Michigan, LLC
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

From:

Micki M. Maki

Date:

February 23, 2023

REV March 9, 2023

Revised May 17, 2023

Arcadis Project No.:

30121887

Subject:

PCB Area #20 – Former Oil Interceptor #2 TSCA Deed Restriction

RACER Buick City Site, Flint, Michigan

EXECUTIVE SUMMARY

PCB Area #20 is the former Oil Interceptor #2, which removed oil from the Outfall 003 storm sewer system. Oil Interceptor #2 decommissioning was completed in January/February 2023. As part of decommissioning activities, a sample of the sediment remaining in the structure detected PCBs at a concentration of 2 milligrams per kilogram (mg/kg). In addition, six wipe samples were collected from the sheet pile wall remaining in the ground, which detected PCBs at concentrations ranging from 3 to 24 micrograms per 100 centimeters squared (ug/100cm^2). Therefore, a ***risk-based high occupancy deed restriction*** is planned for the footprint of the remaining structure.

1.1 Background

Oil Interceptor #2 is located in the Northend of the Site (**Figure 1**) along the Outfall 003 storm sewer system (**Figure 2**). The interceptor was installed in the 1980's to collected oil infiltrating the storm sewer. As part of the Outfall 003 reroute completed in 2021, the section of storm sewer that Oil Interceptor #2 serviced was abandoned. Oil Interceptor #2 was constructed with a concrete floor and sheet pile sidewalls, with approximate dimensions of approximately 20 ft x 90 ft x 20 ft deep. The Oil Interceptor #2 structure decommissioning was completed in January/February 2023.

1.1 Overview of Decommissioning Activities

A brief overview of decommissioning activities is summarized below.

- Absorbent booms and pads were utilized to collect residual oil from the interior sheet pile sidewalls of the interceptor structure. Oil impacted waste media was containerized into drums for offsite disposal.
- Prior to backfill, the sediment remaining in the interceptor structure was regraded to an approximate two-foot thickness across the bottom of the structure.
- The internal components of the oil interceptor which included an above grade building and an open stairwell to a lower-level catwalk were removed for offsite disposal.
- Imported fill material was placed in 12" loose lifts and compacted to approximately seven feet below final grade.
- Surface wipe samples were collected from six locations on the interior sheet pile walls of the interceptor structure at a depth of 7 feet below ground surface. One sample did not detect PCBs and the remaining 5 samples detect PCBs at concentrations ranging from 3 to 24 ug/100cm^2.
- Existing soils along the perimeter of the interceptor were removed to a depth of five and a half feet. Soils were temporarily stockpiled for reuse.
- The sheet pile sidewalls of the interceptor were cut at five feet below grade and removed for offsite disposal.
- Imported fill material was placed six inches above the top of the remaining embedded sheet pile structure across the excavation area and then compacted with a roller.
- A 60mil geomembrane liner was installed (one continuous wide roll, with no panel seams)
- Six ounce nonwoven geotextile (12" overlap on adjacent sides) was then installed directly above the liner to serve as a protective layer.
- The liner system was then keyed into the ground outside of the footprint of the former interceptor walls, backfilled and compacted.
- A one-foot layer of imported clay material was placed and compacted above the liner system.
- An additional layer of 6oz nonwoven geotextile was placed atop of the clay (one foot above the top of the liner) to act as a demarcation layer.
- Imported fill material was placed in 12" loose lifts and compacted with a roller to surface grade.

Figure 3 shows a cross section of the remaining Oil Interceptor #2 structure and cap.

A photo log of the construction activities s also attached to this memo.

1.2 PCB Impacts

1.2.1 Oil Interceptor #2 Impacts

Following decommissioning of Oil Interceptor #2, only the sediments and portion of the structure remain. Laboratory analysis detected PCBs in the samples at the following concentrations:

- Sediment sample – 2 mg/kg
- Wipe samples
    - Wipe 1 – 24 ug/100cm^2
    - Wipe 2 – 11 ug/100cm^2
    - Wipe 3 – 3 ug/100cm^2
    - Wipe 4 – 6.4 ug/100cm^2
    - Wipe 5 – 24 ug/100cm^2
    - Wipe 6 – Not detected

1.2.2 Soil Investigation Activities

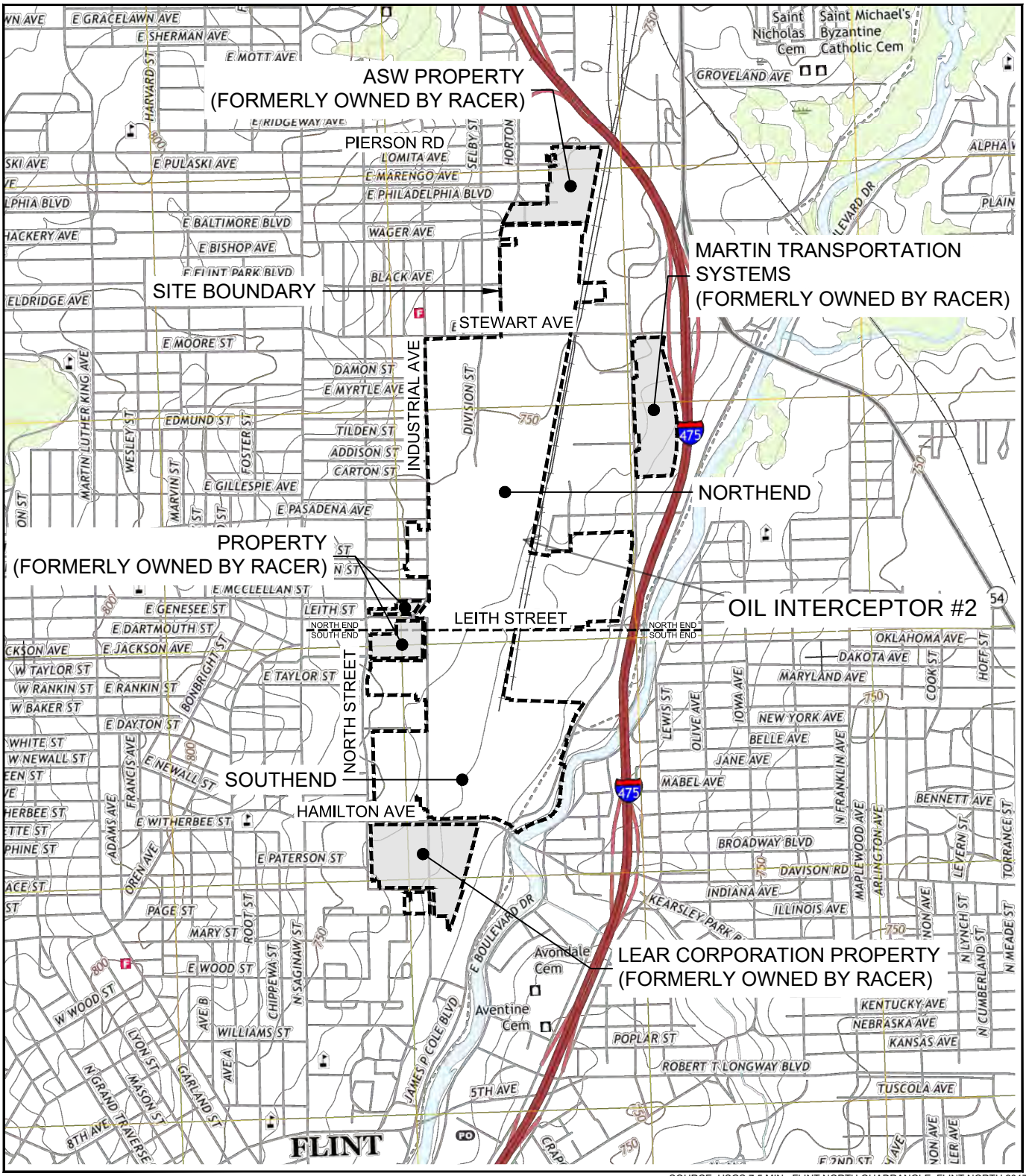
During various Site investigation activities five borings (**Figure 4**) have been completed adjacent to Oil Interceptor #2 as detailed below:

- As part of 1993 investigation work, soil samples were collected from three borings (SB-26A and SB-27A) and submitted for PCB analysis. Two soil samples were collected from each boring from 5 to 7 ft bgs and 10 to 12 ft bgs. There were no detections of PCBs.
- As part of 2001 RFI investigation activities surface soil samples collected from 0 to 2 ft bgs at soil borings RFI-81-15 and RFI-81-16 and submitted for PCB analysis. There were no detections of PCBs.
- In addition, as part of the laser-induced fluorescence (LIF) investigation one boring was completed near the discharge point of Oil Interceptor #2 to investigate for the presence of LNAPL impacts in soil. The boring was completed to a depth of 25.4 ft bgs. No evidence of LNAPL impacts were observed in the boring.

Based on available investigation data no PCB impacts were identified outside the Oil Interceptor #2 structure.

1.3 Proposed Restrictions

At PCB Area #20, PCBs were detected at concentrations up to 24 ug/100cm^2 from the wipe samples collected from remaining Oil Interceptor #2 structure. The proposed area to be restricted is the footprint of the Oil Interceptor #2 structure, shown on **Figure 4**. No evidence of PCB impacts has been identified outside of the structure. Based on available data and the secure, enhanced cap that exceeds the requirements of 40 CFR 7971.61(a) (7) and (8) a ***risk-based high occupancy deed restriction*** is being requested for PCB Area #20.



SOURCE: USGS 7.5 MIN., FLINT NORTH QUADRANGLE, FLINT NORTH 2017



0 2000' 4000'

APPROXIMATE SCALE IN FEET

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

CITY:SYRACUSE-NY DIV/GROUP:ENV DB:A.SANCHEZ LD:GMS PIC:C.S.PETERS PM:C.KIKER TM:C.KIKER LYR:(Opt)ON=*;OFF=*REF*
C:\BIM\OneDrive - ARCADIS\BIM 360 Docs\RACER TRUST\BUICK CITY RCRA\2019\01-DWG\RTBC-F-SITE LOCATION.dwg LAYOUT:1 SAVED: 7/31/2019 2:26 PM ACADVER: 23.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 7/31/2019 3:09 PM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ----

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OIL INTERCEPTOR #2

LINE CONNECTION TERMINATED

BULKHEAD

10”

12”

A

A'

LINE CONNECTION TERMINATED

BULKHEAD

LINE CONNECTION TERMINATED

EXISTING BULKHEAD

12”

66”

12”

3 15

3 17-1

8”

8”

3 17

3 16

BURIED

(ABANDONED) IE 731.37

18”

60”

3 12

3 38

3 38-1

IE 72

LEGEND:

- PROPERTY BOUNDARY
- BUILDING
- DECKING
- SEWER LINE
- FIRE WATER
- PROCESS WASTE

0 16' 32'

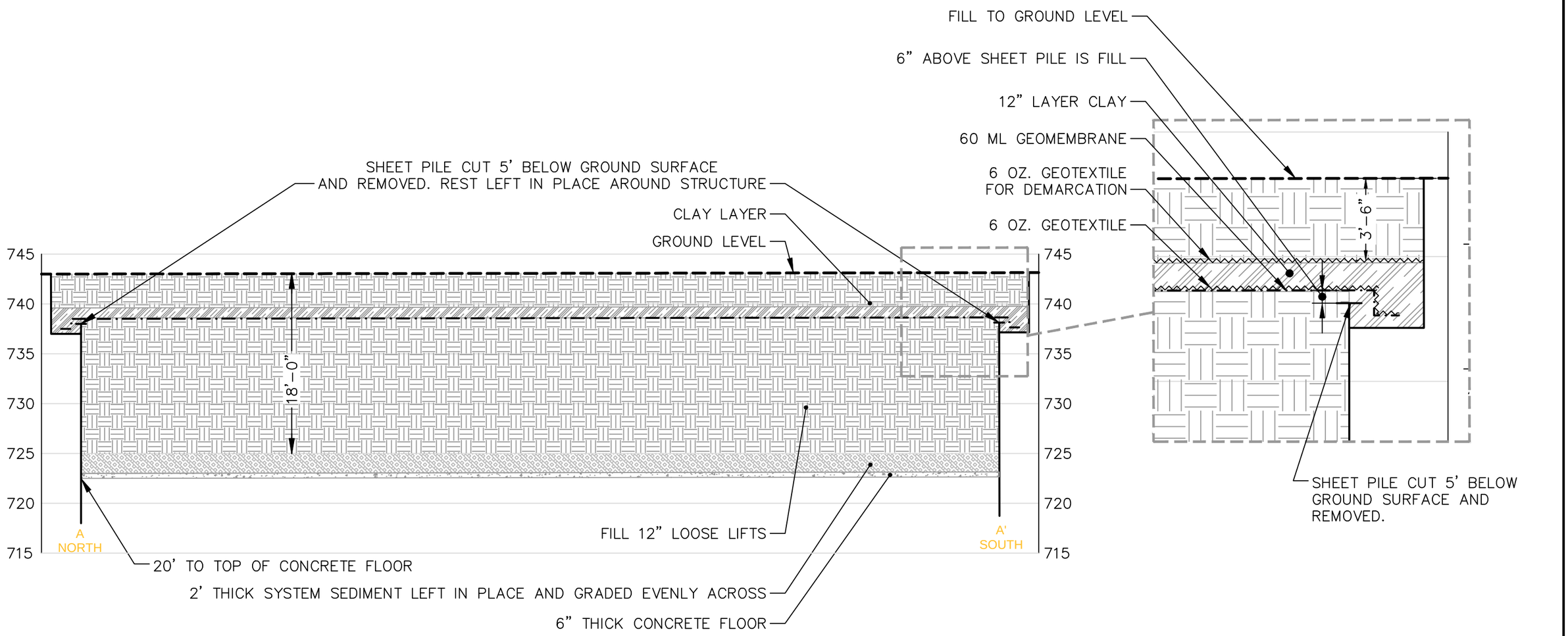
GRAPHIC SCALE

RACER TRUST
BUICK CITY
FLINT, MICHIGAN

OIL INTERCEPTOR #2 DECOMMISSIONING

ARCADIS Design & Consultancy for natural and built assets

FIGURE 2



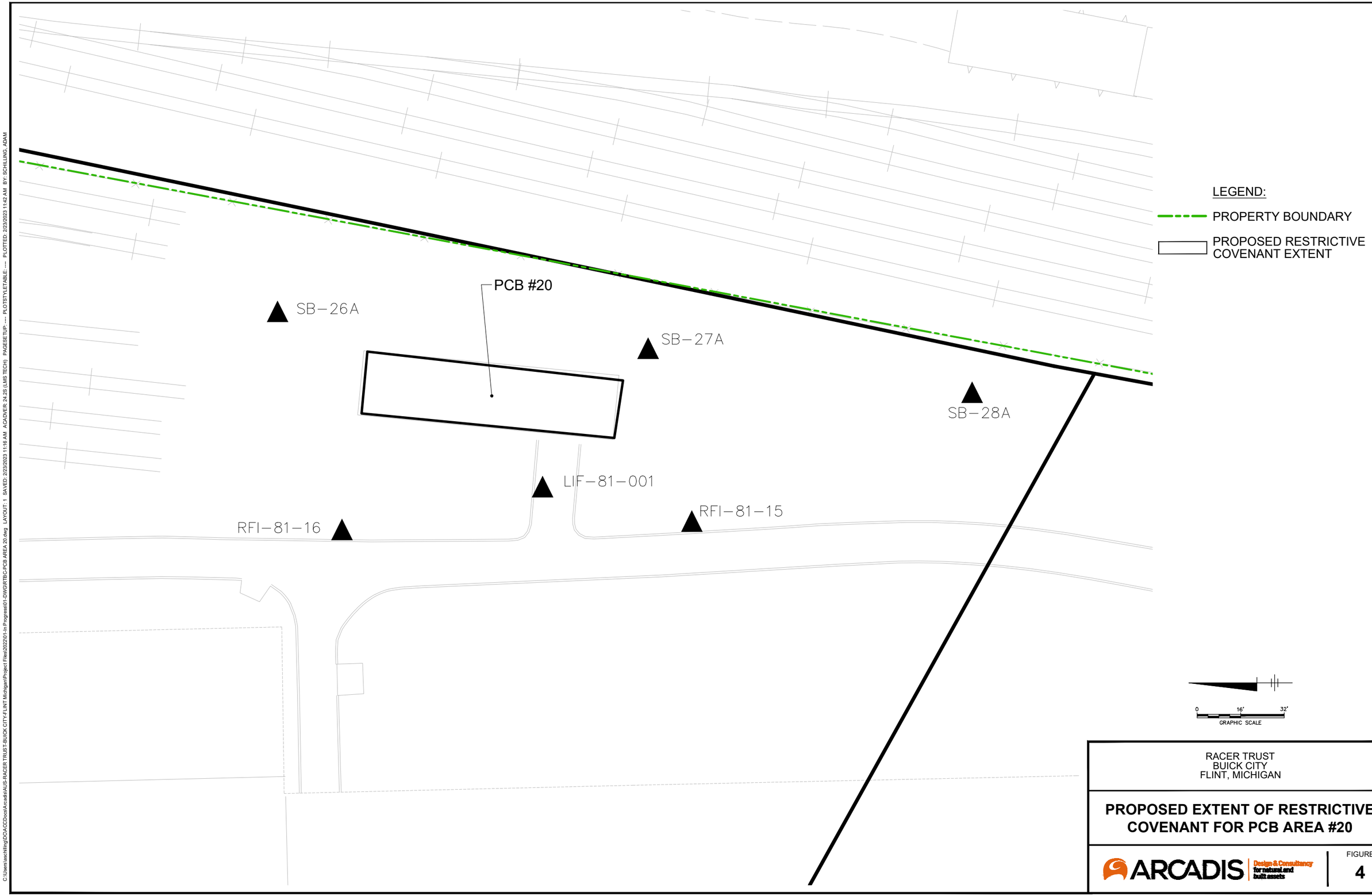
RACER TRUST
BUICK CITY
FLINT, MICHIGAN

OIL INTERCEPTOR 2 DECOMMISSIONING CROSS SECTION

ARCADIS

FIGURE
3

C:\Users\BSSmall\ACCDocs\Arcadis\AUS-RACER TRUST-BUICK CITY-FLINT Michigan\Project Files\2022\01-In Progress\01-DWG\GEN-F0X-CROSS SECTION.dwg LAYOUT: 3 SAVED: 3/3/2023 11:55 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 3/6/2023 8:59 AM
BY: SMALL, BRIAN
XREFS:
GEN-X0-RBL
IMAGES:



RACER TRUST
BUICK CITY
FLINT, MICHIGAN

PROPOSED EXTENT OF RESTRICTIVE COVENANT FOR PCB AREA #20

ARCADIS Design & Consultancy for natural and built assets

FIGURE
4

C:\Users\aschilling\DOCACCDocs\Arcadis\AUS-RACER TRUST-BUICK CITY-FLINT Michigan\Project Files\2022\01-In Progress\01-DWG\RTBC-PCB AREA 20.dwg LAYOUT: 1 SAVED: 2/23/2023 11:16 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 2/23/2023 11:42 AM BY: SCHILLING, ADAM



PHOTOGRAPH: 1

DIRECTION / VIEW:
N

DESCRIPTION:

Global Water Treatment System consisting of inline GAC vessels and dual bag filter housing units. ISCO sampling device shown towards front of the trailer mounted system.



PHOTOGRAPH: 2

DIRECTION / VIEW:
N

DESCRIPTION:

2” submersible pump and generator installed near SW corner of Interceptor #2



PHOTOGRAPH: 3

DIRECTION / VIEW:
OUTSIDE

DESCRIPTION:

View from atop structure at intake location when the treatment system was shut down due to trickle flow water level



PHOTOGRAPH: 4

DIRECTION / VIEW:
N

DESCRIPTION:

View from within the structure of sediment and ponding water



PHOTOGRAPH: 5

DIRECTION / VIEW:
W

DESCRIPTION:

Observe 2” dia. PVC pipe within the structure. PVC lines have been previously cut & left in place terminating the run.



PHOTOGRAPH: 6

DIRECTION / VIEW:
NE

DESCRIPTION:

Observe a 12” dia. line entering the subsurface structure from the NE corner at a depth of ~10’ below top of the sheet pile wall.



PHOTOGRAPH: 7

DIRECTION / VIEW:
E

DESCRIPTION:

Contents from within the above grade structure removed prior to building demo.



PHOTOGRAPH: 8

DIRECTION / VIEW:
SE

DESCRIPTION:

Above grade building structure post demo.



PHOTOGRAPH: 9

DIRECTION / VIEW:
-

DESCRIPTION:

Removal of components from within the interior structure of the interceptor building



PHOTOGRAPH: 10

DIRECTION / VIEW:
-

DESCRIPTION:

Removal of components from within the interior structure of the interceptor building



PHOTOGRAPH: 11

DIRECTION / VIEW:
N

DESCRIPTION:

Contractor has completed excavation of soil along the West side of the structure to accommodate sheet pile wall removal after piles have been cut w/welding torch



PHOTOGRAPH: 12

DIRECTION / VIEW:
SE

DESCRIPTION:

Overview of Interceptor sheet pile and horizontal I-beam supports that remain in place



PHOTOGRAPH: 13

DIRECTION / VIEW:
SE

DESCRIPTION:

Contractor cutting sheet pile with welding torch prior to removal



PHOTOGRAPH: 14

DIRECTION / VIEW:
S

DESCRIPTION:

Structural bracing remains in place while sheet pile is cut



PHOTOGRAPH: 15

DIRECTION / VIEW:
W

DESCRIPTION:

Contractor placing material within the interceptor during backfill and compaction.



PHOTOGRAPH: 16

DIRECTION / VIEW:
E

DESCRIPTION:

Contractor utilizing mini excavator to grade and compact soil around structural bracing.



PHOTOGRAPH: 17

DIRECTION / VIEW:
E

DESCRIPTION:

The upper 5ft of the 4 sided sheet pile wall structure have been removed



PHOTOGRAPH: 18

DIRECTION / VIEW:
E

DESCRIPTION:

Contractor placing, grading, compacting clay soil 6” above the top of the cut sheet pile wall



PHOTOGRAPH: 19

DIRECTION / VIEW:
S

DESCRIPTION:

Backfill above liner system



PHOTOGRAPH: 20

DIRECTION / VIEW:
N

DESCRIPTION:

Backfill above liner system



PHOTOGRAPH: 21

DIRECTION / VIEW:
S

DESCRIPTION:

Backfill and grading above liner system



PHOTOGRAPH: 22

DIRECTION / VIEW:
N

DESCRIPTION:

Compaction of 12” loose lifts during backfill



PHOTOGRAPH: 23

DIRECTION / VIEW:
NE

DESCRIPTION:

Following placement and grading of 12” lift, contractor utilizing Compactor with sheep’s foot Pad front roller



PHOTOGRAPH: 24

DIRECTION / VIEW:
N

DESCRIPTION:

Mid morning progress photo

Attachment B

(Submitted via separate email due to size)

Attachment B

(File 1 of 2)

Attachment B - Lab Report Cross Reference Table
RACER Buick City, Flint, Michigan

PCB Area	Location ID	Lab Report ID
PCB Area #1	55-5R	S35141
	SB-05-23	S00005
	SB-55-04	S41670
	SB-55-05	S41670
	SB-55-06	S41670
PCB Area #2	SB-10-05	S57921
	SB-10-06	S57922
	SB-10-07	S57922
	SB-10-34	S09912
	SB-10-35	S09912
	TW-10-04-1	S59296
	SB-10-105	S41731
	SB-10-106	S41731
PCB Area #3	MW-10-13	S59863
	MW-10-14	S59863
	SB-10-08-15	S60130
	SB-10-09	S58541
	SB-10-10	S58541
	SB-10-11	S58541
	SB-10-16	S63425
	SB-10-17	S63425
	SB-10-18	S63425
	SB-10-19	S63425
	SB-10-36	S09912
	SB-10-37	S09912
	SB-10-44	S10981
	SB-10-45	S10968
	SB-10-46	S10981
	SB-10-47	S10981
	SB-10-48	S10981
	SB-10-49	S10968
	SB-10-50	S10968
	SB-10-51	S10968
	SB-10-52	S10968
	SB-10-53	S10968
	SB-10-54	S10968
	SB-10-55	S12297
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	SB-10-59	S12297
	SB-10-60	S12297
	SB-10-64	S12942
	SB-10-65	S12942
	SB-10-66	S12943
	SB-10-67	S12943
	SB-10-72	S12943
	SB-10-73	S12943
	SB-10-74	S12943
	TW-10-08-2	S59255
	TW-10-08-5	S59255
	TW-10-08-7	S59255

Attachment B - Lab Report Cross Reference Table
RACER Buick City, Flint, Michigan

PCB Area	Location ID	Lab Report ID
PCB Area #4	SB-05-05	S57921
	SB-05-05-18	S09961
	SB-05-05-19	S09961
	SB-05-05-20	S09961
	TW-05-05-06	S63500
	TW-05-05-07	S63500
	TW-05-05-08	S63500
	TW-05-05-09	S63500
	TW-05-05-1	S59719
	TW-05-05-10	S63500
	TW-05-05-11	S63500
	TW-05-05-12	S63500
	TW-05-05-13	S63500
	TW-05-05-14	S63500
	TW-05-05-2	S59719
PCB Area #5	SB-05-07	S57975
	SB-05-08	S57975
	SB-DH-RW-1-19	S09912
	SB-DH-RW-1-20	S09912
	SB-DH-RW-1-21	S09912
	SB-DH-RW-1-22	S09912
	SB-DH-RW-1-24	S10968
	SB-DH-RW-1-25	S10968
	SB-DH-RW-1-26	S10968
	SB-DH-RW-1-27	S10968
	SB-DH-RW-1-30	S12297
	SB-DH-RW-1-33	S12906
	SB-DH-RW-1-34	S12942
	SB-DH-RW-3-41	S70369
	SB-DH-RW-3-46	S70378
	SB-DH-RW-3-48	S70369
	SB-DH-RW-3-51	S92847
	SB-DH-RW-3-52	S92847
	SB-DH-RW-3-53	S92847
	SB-DH-RW-3-55	S09912
	TW-DH-RW-1-1	S59659
	TW-DH-RW-1-15	S66407
	TW-DH-RW-1-17	S67255
	TW-DH-RW-1-18	S67255
	TW-DH-RW-1-2	S59659
	SB-DH-RW-1-28	S10968
	SB-DH-RW-1-29	S12297
	TH-DH-RW-1-3	S59674
	TW-DH-RW-1-31	S12297
	TW-DH-RW-1-32	S12297
	TW-DH-RW-1-36	S12906
	TW-DH-RW-1-37	S12906
	TW-DH-RW-1-38	S12906
	TW-DH-RW-1-4	S59674
	TW-DH-RW-1-5	S59674
	TW-DH-RW-1-6	S59674
	TW-DH-RW-1-7	S59674
	TW-DH-RW-1-9	S63564
	TW-DH-RW-2-2	S59625

Attachment B - Lab Report Cross Reference Table
RACER Buick City, Flint, Michigan

PCB Area	Location ID	Lab Report ID
PCB Area #5	TW-DH-RW-2-3	S59625
	TW-DH-RW-2-5	S59659
	TW-DH-RW-3-18	S63564
	TW-DH-RW-3-2	S59376
	TW-DH-RW-3-27	S66239
	TW-DH-RW-3-35	S67255
	TW-DH-RW-3-5	S59625
	SB-DH-RW-3-56	S12297
	SB-DH-RW-3-57	S12297
	TW-DH-RW-3-6	S59625
PCB Area #6	TW-43-165-5	S59675
	TW-43-165-4	S59675
	TW-43-165-11	S63613
	TW-43-165-7	S59675
	TW-43-165-6	S59675
	TW-43-165-10	S63612
PCB Area #7	TW-03-03-1	S63645
	TW-03-03-2	S63645
	TW-03-03-4	S63645
	SB-03-20	S35180 and S35141
PCB Area #8	SB-70-101-11	S63730
	SB-70-101-12	S63871
	SB-70-101-13	S63871
	SB-70-101-14	S63871
	SB-70-101-15	S63871
	SB-70-101-17	S70447
	SB-70-101-20	S70447
	SB-70-101-21	S70447
	SB-70-101-23	S74794
	SB-70-103-08	S59882
	SB-70-103-10	S59882
	SB-70-103-11	S59882
	SB-70-103-18	S63871
	SB-70-107R-13	S63871
	SB-70-107R-14	S63871
	SB-70-107R-15	S63871
	SB-81-02	S58020
	SB-81-03	S58020
	SB-81-04	S58020
	SB-81-06	S63961
	SB-81-07	S63961
	SB-81-08	S63961
	SB-81-09	S63961
	SB-81-11	S63961
	SB-81-12	S63961
	SB-81-13	S63961
	SB-81-14	S63961
	SB-81-23	S09445
	SB-81-24	S09445
	SB-81-25	S09508
	SB-81-26A	S09742
	SB-81-27A	S09742
	SB-81-28	S09508
	SB-81-29	S09614

Attachment B - Lab Report Cross Reference Table
RACER Buick City, Flint, Michigan

PCB Area	Location ID	Lab Report ID
PCB Area #8	SB-81-30	S09445
	SB-81-31	S09445
	SB-81-33B	S12297
	SB-81-34	S09445
	SB-81-35	S10981
	SB-81-36	S12297
	SB-81-37	S12297
	SB-81-38	S12297
	SB-81-39	S12297
	SB-81-40	S12297
	SB-81-42	S12297
	SB-81-43	S12942
	SB-81-44	S12942
	SB-81-45	S12943
	SB-81-46	S12943
	SB-81-48	S12942
	SB-81-49	S12942
	SB-81-50	S12943
	SB-81-53	S14903
	SB-81-54	S14903
	SB-81-62	S16024
	SB-81-63	S16024
	SB-81-64	S16024
	SB-81-65	S16024
	SB-81-66	S16024
	SB-81-67	S16024
	TW-70-101-1	S59296
	TW-70-101-16	S66407
	TW-70-101-19	S70447
	TW-70-101-2	S59296
	TW-70-101-3	S59296
	TW-70-101-4	S59296
	TW-70-101-7	S59296
	TW-70-101-9	S63645
	TW-70-103-09	S59882
	TW-70-103-1	S59356
	TW-70-103-14	S63692
	TW-70-103-15	S63692
	TW-70-103-16	S63692
	TW-70-103-17	S63692
	TW-70-103-2	S59356
	TW-70-103-20	S66317
	TW-70-103-3	S59356
	TW-70-103-4	S59356
	TW-70-103-5	S59356
	TW-70-103-6	S59356
	TW-70-103-7	S59356
	TW-70-107R-1	S59356
	TW-70-107R-11	S63730
	TW-70-107R-12	S63692
	TW-70-107R-2	S59356
	TW-70-107R-4	S59356
	TW-70-107R-5	S59356
	TW-70-107R-7	S59356

Attachment B - Lab Report Cross Reference Table
RACER Buick City, Flint, Michigan

PCB Area	Location ID	Lab Report ID
PCB Area #9	SB-81-32	S09614
PCB Area #10	SB-83/84-46	S12297
	SB-83/84-47	S12297
	TW-83/84-49-3	S59054
	TW-83/84-49-4	S59022
	TW-83/84-49-7	S58985
	TW-83/84-49-8	S63753
	TW-83/84-49-9	S63753
PCB Area #11	SB-86-13	S63870
	SB-86-14	S63870
	SB-86-15	S63870
	SB-86-16	S63870
PCB Area #12	EP 94-02AR	S09614
	SB-94-08	S35591
PCB Area #13	SB-40-01	S91744
	SB-40-17	S91744
	SB-40-18	S91744
	SB-40-19	S91744
	SB-40-20	S91744
	SB-40-21	S09614
PCB Area #14	SB-40-22	S09614
	SB-40-30	S41388
	SB-40-31	S41388
PCB Area #15	SB-ACSP-01	S09961
	SB-ACSP-02	S09742
PCB Area #16	SB-10-30	S99915
	SB-10-62	S12297
	SB-10-63	S12297
	SB-10-78	S15013
	SB-10-79	S15013
PCB Area #20	BOB2-SURFACEWIPE-1 BOB2-SURFACEWIPE-2 BOB2-SURFACEWIPE-3 BOB2-SURFACEWIPE-4 BOB2-SURFACEWIPE-5 BOB2-SURFACEWIPE-6	S44744
	BOB2-SEDIMENT	S24678

Highlighting indicates report has been requested from the lab and will be provided upon receipt.

Analytical Laboratory Report

Report ID: S00005.01(01)
Generated on 04/15/2019

Report to

Attention: Kristen VanDenBerge
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 231-534-5092 FAX: 248-994-2241
Email: kristen.Vandenberge@arcadis.com

Addtional Contacts: Micki Maki, Megan Humphrey, Erin Kozak

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John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S00005.01-S00005.13
Project: B0064410.2019.03100 / Buick City RACER
Collected Date: 03/18/2019
Submitted Date/Time: 03/19/2019 08:15
Sampled by: Austin Westhuis
P.O. #: B0064410.2019.03100

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
ASTM D7968-17M	
ASTMD7979-17M	ASTM Method D7979 - 17 Modified (Isotopic Dilution)
SM2540B	Standard Method 2540 B 2011

Parameter Summary

Parameter	Synonym	Cas #
PFBA	Perfluorobutanoic Acid	375-22-4
PFPeA	Perfluoropentanoic Acid	2706-90-3
4:2 FTSA	4:2 Fluorotelomer Sulfonic Acid	757124-72-4
PFHxA	Perfluorohexanoic Acid	307-24-4
PFBS	Perfluorobutane sulfonic Acid	375-73-5
PFHpA	Perfluoroheptanoic Acid	375-85-9
PFPeS	Perfluoropentane Sulfonic Acid	2706-91-4
6:2 FTSA	6:2 Fluorotelomer Sulfonic Acid	27619-97-2
PFOA	Perfluorooctanoic Acid	335-67-1
PFHxS	Perfluorohexane Sulfonic Acid	355-46-4
PFHxS-LN	Perfluorohexane Sulfonic Acid - LN	355-46-4-LN
PFHxS-BR	Perfluorohexane Sulfonic Acid - BR	355-46-4-BR
PFNA	Perfluorononanoic Acid	375-95-1
8:2 FTSA	8:2 Fluorotelomer Sulfonic Acid	39108-34-4
PFHpS	Perfluoroheptane Sulfonic Acid	375-92-8
PFDA	Perfluorodecanoic Acid	335-76-2
N-MeFOSAA	N-methyl perfluorooctanesulfonamidoacetic acid	2355-31-9
EtFOSAA	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	2991-50-6
PFOS	Perfluorooctane Sulfonic Acid	1763-23-1
PFOS-LN	Perfluorooctane Sulfonic Acid - LN	1763-23-1-LN
PFOS-BR	Perfluorooctane Sulfonic Acid - BR	1763-23-1-BR
PFUnDA	Perfluoroundecanoic Acid	2058-94-8
PFNS	Perfluorononane Sulfonic Acid	474511-07-4
PFDoDA	Perfluorododecanoic Acid	307-55-1
PFDS	Perfluorodecane Sulfonic Acid	335-77-3
PFTrDA	Perfluorotridecanoic Acid	72629-94-8
FOSA	Perfluorooctane Sulfonamide	754-91-6
PFTeDA	Perfluorotetradecanoic Acid	376-06-7

Sample Summary (13 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S00005.01	SB-05-26(1-3)_03182019	Soil	03/18/19 09:30
S00005.02	SB-05-26(11-13)_03182019	Soil	03/18/19 09:55
S00005.03	SB-10-28(1-3)_03182019	Soil	03/18/19 09:15
S00005.04	SB-10-28(10-12)_03182019	Soil	03/18/19 09:45
S00005.05	SB-10-29(1-3)_03182019	Soil	03/18/19 10:15
S00005.06	SB-10-29(10-12)_03182019	Soil	03/18/19 10:45
S00005.07	SB-81-21(03182019)	Groundwater	03/18/19 11:00
S00005.08	Dup-03(03182019)	Groundwater	03/18/19 00:01
S00005.09	SB-05-23(1-3)_03182019	Soil	03/18/19 11:30
S00005.10	SB-05-23(11.5-13.5)_03182019	Soil	03/18/19 11:45
S00005.11	SB-05-27(03182019)	Groundwater	03/18/19 13:00
S00005.12	SB-10-28(03182019)	Groundwater	03/18/19 15:00
S00005.13	SB-10-31(03182019)	Groundwater	03/18/19 16:45

Lab Sample ID: S00005.01
Sample Tag: SB-05-26(1-3)_03182019
Collected Date/Time: 03/18/2019 09:30
Matrix: Soil
COC Reference: 121189

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	3.1	IR
1	250ml Plastic	None	Yes	3.1	IR

Inorganics

Method: SM2540B, Run Date: 03/19/19 14:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics

24 PFAs, Method: ASTM D7968-17M, Run Date: 04/04/19 22:58, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	45		ng/kg	4.49	375-22-4	
PFPeA*	Not detected	45		ng/kg	4.49	2706-90-3	
4:2 FTSA*	Not detected	45		ng/kg	4.49	757124-72-4	
PFHxA*	Not detected	45		ng/kg	4.49	307-24-4	
PFBS*	Not detected	45		ng/kg	4.49	375-73-5	
PFHpA*	Not detected	45		ng/kg	4.49	375-85-9	
PFPeS*	Not detected	45		ng/kg	4.49	2706-91-4	
6:2 FTSA*	Not detected	45		ng/kg	4.49	27619-97-2	
PFOA*	Not detected	45		ng/kg	4.49	335-67-1	
PFHxS*	Not detected	45		ng/kg	4.49	355-46-4	
PFHxS-LN*	Not detected	45		ng/kg	4.49	355-46-4-LN	
PFHxS-BR*	Not detected	45		ng/kg	4.49	355-46-4-BR	
PFNA*	Not detected	45		ng/kg	4.49	375-95-1	
8:2 FTSA*	Not detected	45		ng/kg	4.49	39108-34-4	
PFHpS*	Not detected	45		ng/kg	4.49	375-92-8	
PFDA*	Not detected	45		ng/kg	4.49	335-76-2	
N-MeFOSAA*	Not detected	45		ng/kg	4.49	2355-31-9	
EtFOSAA*	Not detected	45		ng/kg	4.49	2991-50-6	
PFOS*	Not detected	45		ng/kg	4.49	1763-23-1	
PFOS-LN*	Not detected	45		ng/kg	4.49	1763-23-1-LN	
PFOS-BR*	Not detected	45		ng/kg	4.49	1763-23-1-BR	
PFUnDA*	Not detected	45		ng/kg	4.49	2058-94-8	
PFNS*	Not detected	45		ng/kg	4.49	474511-07-4	
PFDoDA*	Not detected	45		ng/kg	4.49	307-55-1	I
PFDS*	Not detected	45		ng/kg	4.49	335-77-3	
PFTrDA*	Not detected	45		ng/kg	4.49	72629-94-8	I
FOSA*	Not detected	45		ng/kg	4.49	754-91-6	
PFTeDA*	Not detected	45		ng/kg	4.49	376-06-7	

I-Matrix interference with internal standard

Lab Sample ID: S00005.02
Sample Tag: SB-05-26(11-13)_03182019
Collected Date/Time: 03/18/2019 09:55
Matrix: Soil
COC Reference: 121189

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	3.1	IR
1	250ml Plastic	None	Yes	3.1	IR

Inorganics

Method: SM2540B, Run Date: 03/19/19 14:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics

24 PFAs, Method: ASTM D7968-17M, Run Date: 04/04/19 23:17, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	35		ng/kg	3.47	375-22-4	
PFPeA*	Not detected	35		ng/kg	3.47	2706-90-3	
4:2 FTSA*	Not detected	35		ng/kg	3.47	757124-72-4	
PFHxA*	Not detected	35		ng/kg	3.47	307-24-4	
PFBS*	Not detected	35		ng/kg	3.47	375-73-5	
PFHpA*	Not detected	35		ng/kg	3.47	375-85-9	
PFPeS*	Not detected	35		ng/kg	3.47	2706-91-4	
6:2 FTSA*	Not detected	35		ng/kg	3.47	27619-97-2	
PFOA*	Not detected	35		ng/kg	3.47	335-67-1	
PFHxS*	Not detected	35		ng/kg	3.47	355-46-4	
PFHxS-LN*	Not detected	35		ng/kg	3.47	355-46-4-LN	
PFHxS-BR*	Not detected	35		ng/kg	3.47	355-46-4-BR	
PFNA*	Not detected	35		ng/kg	3.47	375-95-1	
8:2 FTSA*	Not detected	35		ng/kg	3.47	39108-34-4	
PFHpS*	Not detected	35		ng/kg	3.47	375-92-8	
PFDA*	Not detected	35		ng/kg	3.47	335-76-2	
N-MeFOSAA*	Not detected	35		ng/kg	3.47	2355-31-9	
EtFOSAA*	Not detected	35		ng/kg	3.47	2991-50-6	
PFOS*	Not detected	35		ng/kg	3.47	1763-23-1	
PFOS-LN*	Not detected	35		ng/kg	3.47	1763-23-1-LN	
PFOS-BR*	Not detected	35		ng/kg	3.47	1763-23-1-BR	
PFUnDA*	Not detected	35		ng/kg	3.47	2058-94-8	
PFNS*	Not detected	35		ng/kg	3.47	474511-07-4	
PFDoDA*	Not detected	35		ng/kg	3.47	307-55-1	
PFDS*	Not detected	35		ng/kg	3.47	335-77-3	
PFTrDA*	Not detected	35		ng/kg	3.47	72629-94-8	
FOSA*	Not detected	35		ng/kg	3.47	754-91-6	
PFTeDA*	Not detected	35		ng/kg	3.47	376-06-7	

Analytical Laboratory Report

Lab Sample ID: S00005.03
Sample Tag: SB-10-28(1-3)_03182019
Collected Date/Time: 03/18/2019 09:15
Matrix: Soil
COC Reference: 121189

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	3.1	IR
1	250ml Plastic	None	Yes	3.1	IR

Inorganics

Method: SM2540B, Run Date: 03/19/19 14:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics

24 PFAs, Method: ASTM D7968-17M, Run Date: 04/04/19 23:37, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	75		ng/kg	5.78	375-22-4	X
PFPeA*	Not detected	58		ng/kg	5.78	2706-90-3	
4:2 FTSA*	Not detected	58		ng/kg	5.78	757124-72-4	
PFHxA*	Not detected	58		ng/kg	5.78	307-24-4	
PFBS*	Not detected	58		ng/kg	5.78	375-73-5	
PFHpA*	Not detected	58		ng/kg	5.78	375-85-9	
PFPeS*	Not detected	58		ng/kg	5.78	2706-91-4	
6:2 FTSA*	Not detected	58		ng/kg	5.78	27619-97-2	I
PFOA*	Not detected	58		ng/kg	5.78	335-67-1	
PFHxS*	Not detected	58		ng/kg	5.78	355-46-4	
PFHxS-LN*	Not detected	58		ng/kg	5.78	355-46-4-LN	
PFHxS-BR*	Not detected	58		ng/kg	5.78	355-46-4-BR	
PFNA*	Not detected	58		ng/kg	5.78	375-95-1	
8:2 FTSA*	Not detected	58		ng/kg	5.78	39108-34-4	I
PFHpS*	Not detected	58		ng/kg	5.78	375-92-8	
PFDA*	Not detected	58		ng/kg	5.78	335-76-2	
N-MeFOSAA*	Not detected	58		ng/kg	5.78	2355-31-9	
EtFOSAA*	Not detected	58		ng/kg	5.78	2991-50-6	
PFOS*	Not detected	58		ng/kg	5.78	1763-23-1	
PFOS-LN*	Not detected	58		ng/kg	5.78	1763-23-1-LN	
PFOS-BR*	Not detected	58		ng/kg	5.78	1763-23-1-BR	
PFUnDA*	Not detected	58		ng/kg	5.78	2058-94-8	
PFNS*	Not detected	58		ng/kg	5.78	474511-07-4	
PFDoDA*	Not detected	58		ng/kg	5.78	307-55-1	
PFDS*	Not detected	58		ng/kg	5.78	335-77-3	
PFTrDA*	Not detected	58		ng/kg	5.78	72629-94-8	
FOSA*	Not detected	58		ng/kg	5.78	754-91-6	
PFTeDA*	Not detected	58		ng/kg	5.78	376-06-7	

X-Elevated reporting limit due to matrix interference
I-Matrix interference with internal standard

Analytical Laboratory Report

Lab Sample ID: S00005.04
Sample Tag: SB-10-28(10-12)_03182019
Collected Date/Time: 03/18/2019 09:45
Matrix: Soil
COC Reference: 121189

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	3.1	IR
1	250ml Plastic	None	Yes	3.1	IR

Inorganics

Method: SM2540B, Run Date: 03/19/19 14:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Organics

24 PFAs, Method: ASTM D7968-17M, Run Date: 04/04/19 23:56, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	58		ng/kg	5.81	375-22-4	
PFPeA*	Not detected	58		ng/kg	5.81	2706-90-3	
4:2 FTSA*	Not detected	58		ng/kg	5.81	757124-72-4	
PFHxA*	Not detected	58		ng/kg	5.81	307-24-4	
PFBS*	Not detected	58		ng/kg	5.81	375-73-5	
PFHpA*	Not detected	58		ng/kg	5.81	375-85-9	
PFPeS*	Not detected	58		ng/kg	5.81	2706-91-4	
6:2 FTSA*	Not detected	58		ng/kg	5.81	27619-97-2	
PFOA*	Not detected	58		ng/kg	5.81	335-67-1	
PFHxS*	Not detected	58		ng/kg	5.81	355-46-4	
PFHxS-LN*	Not detected	58		ng/kg	5.81	355-46-4-LN	
PFHxS-BR*	Not detected	58		ng/kg	5.81	355-46-4-BR	
PFNA*	Not detected	58		ng/kg	5.81	375-95-1	
8:2 FTSA*	Not detected	58		ng/kg	5.81	39108-34-4	
PFHpS*	Not detected	58		ng/kg	5.81	375-92-8	
PFDA*	Not detected	58		ng/kg	5.81	335-76-2	
N-MeFOSAA*	Not detected	58		ng/kg	5.81	2355-31-9	
EtFOSAA*	Not detected	58		ng/kg	5.81	2991-50-6	
PFOS*	Not detected	58		ng/kg	5.81	1763-23-1	
PFOS-LN*	Not detected	58		ng/kg	5.81	1763-23-1-LN	
PFOS-BR*	Not detected	58		ng/kg	5.81	1763-23-1-BR	
PFUnDA*	Not detected	58		ng/kg	5.81	2058-94-8	
PFNS*	Not detected	58		ng/kg	5.81	474511-07-4	
PFDoDA*	Not detected	58		ng/kg	5.81	307-55-1	
PFDS*	Not detected	58		ng/kg	5.81	335-77-3	
PFTrDA*	Not detected	58		ng/kg	5.81	72629-94-8	
FOSA*	Not detected	58		ng/kg	5.81	754-91-6	
PFTeDA*	Not detected	58		ng/kg	5.81	376-06-7	

Analytical Laboratory Report

Lab Sample ID: S00005.05
Sample Tag: SB-10-29(1-3)_03182019
Collected Date/Time: 03/18/2019 10:15
Matrix: Soil
COC Reference: 121189

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	3.1	IR
1	250ml Plastic	None	Yes	3.1	IR

Inorganics

Method: SM2540B, Run Date: 03/19/19 14:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics

24 PFAs, Method: ASTM D7968-17M, Run Date: 04/05/19 00:16, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	60		ng/kg	5.97	375-22-4	
PFPeA*	Not detected	60		ng/kg	5.97	2706-90-3	
4:2 FTSA*	Not detected	60		ng/kg	5.97	757124-72-4	
PFHxA*	Not detected	60		ng/kg	5.97	307-24-4	
PFBS*	Not detected	60		ng/kg	5.97	375-73-5	
PFHpA*	Not detected	60		ng/kg	5.97	375-85-9	
PFPeS*	Not detected	60		ng/kg	5.97	2706-91-4	
6:2 FTSA*	Not detected	60		ng/kg	5.97	27619-97-2	
PFOA*	Not detected	60		ng/kg	5.97	335-67-1	
PFHxS*	Not detected	60		ng/kg	5.97	355-46-4	
PFHxS-LN*	Not detected	60		ng/kg	5.97	355-46-4-LN	
PFHxS-BR*	Not detected	60		ng/kg	5.97	355-46-4-BR	
PFNA*	Not detected	60		ng/kg	5.97	375-95-1	
8:2 FTSA*	Not detected	60		ng/kg	5.97	39108-34-4	
PFHpS*	Not detected	60		ng/kg	5.97	375-92-8	
PFDA*	Not detected	60		ng/kg	5.97	335-76-2	
N-MeFOSAA*	Not detected	60		ng/kg	5.97	2355-31-9	
EtFOSAA*	Not detected	60		ng/kg	5.97	2991-50-6	
PFOS*	Not detected	60		ng/kg	5.97	1763-23-1	
PFOS-LN*	Not detected	60		ng/kg	5.97	1763-23-1-LN	
PFOS-BR*	Not detected	60		ng/kg	5.97	1763-23-1-BR	
PFUnDA*	Not detected	60		ng/kg	5.97	2058-94-8	
PFNS*	Not detected	60		ng/kg	5.97	474511-07-4	
PFDoDA*	Not detected	60		ng/kg	5.97	307-55-1	
PFDS*	Not detected	60		ng/kg	5.97	335-77-3	
PFTrDA*	Not detected	60		ng/kg	5.97	72629-94-8	
FOSA*	Not detected	60		ng/kg	5.97	754-91-6	
PFTeDA*	Not detected	60		ng/kg	5.97	376-06-7	

Analytical Laboratory Report

Lab Sample ID: S00005.06
Sample Tag: SB-10-29(10-12)_03182019
Collected Date/Time: 03/18/2019 10:45
Matrix: Soil
COC Reference: 121189

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	3.1	IR
1	250ml Plastic	None	Yes	3.1	IR

Inorganics

Method: SM2540B, Run Date: 03/19/19 14:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics

24 PFAs, Method: ASTM D7968-17M, Run Date: 04/05/19 00:35, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	43		ng/kg	4.06	375-22-4	X
PFPeA*	Not detected	60		ng/kg	4.06	2706-90-3	X
4:2 FTSA*	Not detected	41		ng/kg	4.06	757124-72-4	
PFHxA*	Not detected	41		ng/kg	4.06	307-24-4	
PFBS*	Not detected	41		ng/kg	4.06	375-73-5	
PFHpA*	Not detected	41		ng/kg	4.06	375-85-9	
PFPeS*	Not detected	41		ng/kg	4.06	2706-91-4	
6:2 FTSA*	Not detected	41		ng/kg	4.06	27619-97-2	
PFOA*	Not detected	41		ng/kg	4.06	335-67-1	
PFHxS*	Not detected	41		ng/kg	4.06	355-46-4	
PFHxS-LN*	Not detected	41		ng/kg	4.06	355-46-4-LN	
PFHxS-BR*	Not detected	41		ng/kg	4.06	355-46-4-BR	
PFNA*	Not detected	41		ng/kg	4.06	375-95-1	
8:2 FTSA*	Not detected	41		ng/kg	4.06	39108-34-4	
PFHpS*	Not detected	41		ng/kg	4.06	375-92-8	
PFDA*	Not detected	41		ng/kg	4.06	335-76-2	
N-MeFOSAA*	Not detected	41		ng/kg	4.06	2355-31-9	
EtFOSAA*	Not detected	41		ng/kg	4.06	2991-50-6	
PFOS*	Not detected	41		ng/kg	4.06	1763-23-1	
PFOS-LN*	Not detected	41		ng/kg	4.06	1763-23-1-LN	
PFOS-BR*	Not detected	41		ng/kg	4.06	1763-23-1-BR	
PFUnDA*	Not detected	41		ng/kg	4.06	2058-94-8	
PFNS*	Not detected	41		ng/kg	4.06	474511-07-4	
PFDoDA*	Not detected	41		ng/kg	4.06	307-55-1	
PFDS*	Not detected	41		ng/kg	4.06	335-77-3	
PFTrDA*	Not detected	41		ng/kg	4.06	72629-94-8	
FOSA*	Not detected	41		ng/kg	4.06	754-91-6	
PFTeDA*	Not detected	41		ng/kg	4.06	376-06-7	

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S00005.07
Sample Tag: SB-81-21(03182019)
Collected Date/Time: 03/18/2019 11:00
Matrix: Groundwater
COC Reference: 121189

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	3.1	IR

Organics

24 PFAs, Method: ASTMD7979-17M, Run Date: 04/06/19 20:17, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	20		ng/L	1.95	375-22-4	
PFPeA*	Not detected	9.8		ng/L	1.95	2706-90-3	
4:2 FTSA*	Not detected	9.8		ng/L	1.95	757124-72-4	
PFHxA*	Not detected	9.8		ng/L	1.95	307-24-4	
PFBS*	Not detected	9.8		ng/L	1.95	375-73-5	
PFHpA*	Not detected	9.8		ng/L	1.95	375-85-9	
PFPeS*	Not detected	9.8		ng/L	1.95	2706-91-4	
6:2 FTSA*	Not detected	9.8		ng/L	1.95	27619-97-2	
PFOA*	Not detected	9.8		ng/L	1.95	335-67-1	
PFHxS*	Not detected	9.8		ng/L	1.95	355-46-4	
PFHxS-LN*	Not detected	9.8		ng/L	1.95	355-46-4-LN	
PFHxS-BR*	Not detected	9.8		ng/L	1.95	355-46-4-BR	
PFNA*	Not detected	9.8		ng/L	1.95	375-95-1	
8:2 FTSA*	Not detected	9.8		ng/L	1.95	39108-34-4	
PFHpS*	Not detected	9.8		ng/L	1.95	375-92-8	
PFDA*	Not detected	9.8		ng/L	1.95	335-76-2	
N-MeFOSAA*	Not detected	9.8		ng/L	1.95	2355-31-9	
EtFOSAA*	Not detected	9.8		ng/L	1.95	2991-50-6	
PFOS*	Not detected	9.8		ng/L	1.95	1763-23-1	
PFOS-LN*	Not detected	9.8		ng/L	1.95	1763-23-1-LN	
PFOS-BR*	Not detected	9.8		ng/L	1.95	1763-23-1-BR	
PFUnDA*	Not detected	9.8		ng/L	1.95	2058-94-8	
PFNS*	Not detected	9.8		ng/L	1.95	474511-07-4	
PFDoDA*	Not detected	9.8		ng/L	1.95	307-55-1	
PFDS*	Not detected	9.8		ng/L	1.95	335-77-3	
PFTrDA*	Not detected	9.8		ng/L	1.95	72629-94-8	
FOSA*	Not detected	9.8		ng/L	1.95	754-91-6	
PFTeDA*	Not detected	9.8		ng/L	1.95	376-06-7	

Lab Sample ID: S00005.08
Sample Tag: Dup-03(03182019)
Collected Date/Time: 03/18/2019 00:01
Matrix: Groundwater
COC Reference: 121189

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	3.1	IR

Organics

24 PFAs, Method: ASTMD7979-17M, Run Date: 04/06/19 20:36, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	20		ng/L	1.95	375-22-4	
PFPeA*	Not detected	9.8		ng/L	1.95	2706-90-3	
4:2 FTSA*	Not detected	9.8		ng/L	1.95	757124-72-4	
PFHxA*	Not detected	9.8		ng/L	1.95	307-24-4	
PFBS*	Not detected	9.8		ng/L	1.95	375-73-5	
PFHpA*	Not detected	9.8		ng/L	1.95	375-85-9	
PFPeS*	Not detected	9.8		ng/L	1.95	2706-91-4	
6:2 FTSA*	Not detected	9.8		ng/L	1.95	27619-97-2	I
PFOA*	10	9.8		ng/L	1.95	335-67-1	
PFHxS*	Not detected	9.8		ng/L	1.95	355-46-4	
PFHxS-LN*	Not detected	9.8		ng/L	1.95	355-46-4-LN	
PFHxS-BR*	Not detected	9.8		ng/L	1.95	355-46-4-BR	
PFNA*	Not detected	9.8		ng/L	1.95	375-95-1	
8:2 FTSA*	Not detected	9.8		ng/L	1.95	39108-34-4	
PFHpS*	Not detected	9.8		ng/L	1.95	375-92-8	
PFDA*	Not detected	9.8		ng/L	1.95	335-76-2	
N-MeFOSAA*	Not detected	9.8		ng/L	1.95	2355-31-9	
EtFOSAA*	Not detected	9.8		ng/L	1.95	2991-50-6	
PFOS*	Not detected	9.8		ng/L	1.95	1763-23-1	
PFOS-LN*	Not detected	9.8		ng/L	1.95	1763-23-1-LN	
PFOS-BR*	Not detected	9.8		ng/L	1.95	1763-23-1-BR	
PFUnDA*	Not detected	9.8		ng/L	1.95	2058-94-8	
PFNS*	Not detected	9.8		ng/L	1.95	474511-07-4	
PFDoDA*	Not detected	9.8		ng/L	1.95	307-55-1	
PFDS*	Not detected	9.8		ng/L	1.95	335-77-3	
PFTrDA*	Not detected	9.8		ng/L	1.95	72629-94-8	
FOSA*	Not detected	9.8		ng/L	1.95	754-91-6	
PFTeDA*	Not detected	9.8		ng/L	1.95	376-06-7	

I-Matrix interference with internal standard

Lab Sample ID: S00005.09
Sample Tag: SB-05-23(1-3)_03182019
Collected Date/Time: 03/18/2019 11:30
Matrix: Soil
COC Reference: 121189

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	3.1	IR
1	250ml Plastic	None	Yes	3.1	IR

Inorganics

Method: SM2540B, Run Date: 03/19/19 14:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1	1	%	1		

Organics

24 PFAs, Method: ASTM D7968-17M, Run Date: 04/05/19 00:55, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	34		ng/kg	3.39	375-22-4	
PFPeA*	Not detected	34		ng/kg	3.39	2706-90-3	
4:2 FTSA*	Not detected	34		ng/kg	3.39	757124-72-4	
PFHxA*	Not detected	34		ng/kg	3.39	307-24-4	
PFBS*	Not detected	34		ng/kg	3.39	375-73-5	
PFHpA*	Not detected	34		ng/kg	3.39	375-85-9	
PFPeS*	Not detected	34		ng/kg	3.39	2706-91-4	
6:2 FTSA*	Not detected	34		ng/kg	3.39	27619-97-2	
PFOA*	Not detected	34		ng/kg	3.39	335-67-1	
PFHxS*	Not detected	34		ng/kg	3.39	355-46-4	
PFHxS-LN*	Not detected	34		ng/kg	3.39	355-46-4-LN	
PFHxS-BR*	Not detected	34		ng/kg	3.39	355-46-4-BR	
PFNA*	Not detected	34		ng/kg	3.39	375-95-1	
8:2 FTSA*	Not detected	34		ng/kg	3.39	39108-34-4	
PFHpS*	Not detected	34		ng/kg	3.39	375-92-8	
PFDA*	Not detected	34		ng/kg	3.39	335-76-2	
N-MeFOSAA*	Not detected	34		ng/kg	3.39	2355-31-9	
EtFOSAA*	Not detected	34		ng/kg	3.39	2991-50-6	
PFOS*	330	34		ng/kg	3.39	1763-23-1	
PFOS-LN*	280	34		ng/kg	3.39	1763-23-1-LN	
PFOS-BR*	45	34		ng/kg	3.39	1763-23-1-BR	
PFUnDA*	Not detected	34		ng/kg	3.39	2058-94-8	
PFNS*	Not detected	34		ng/kg	3.39	474511-07-4	
PFDoDA*	Not detected	34		ng/kg	3.39	307-55-1	
PFDS*	Not detected	34		ng/kg	3.39	335-77-3	
PFTrDA*	Not detected	34		ng/kg	3.39	72629-94-8	
FOSA*	Not detected	34		ng/kg	3.39	754-91-6	
PFTeDA*	Not detected	34		ng/kg	3.39	376-06-7	

Lab Sample ID: S00005.10
Sample Tag: SB-05-23(11.5-13.5)_03182019
Collected Date/Time: 03/18/2019 11:45
Matrix: Soil
COC Reference: 121189

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	3.1	IR
1	250ml Plastic	None	Yes	3.1	IR

Inorganics

Method: SM2540B, Run Date: 03/19/19 14:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics

24 PFAs, Method: ASTM D7968-17M, Run Date: 04/05/19 01:14, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	35		ng/kg	3.47	375-22-4	
PFPeA*	Not detected	35		ng/kg	3.47	2706-90-3	
4:2 FTSA*	Not detected	35		ng/kg	3.47	757124-72-4	
PFHxA*	Not detected	35		ng/kg	3.47	307-24-4	
PFBS*	Not detected	35		ng/kg	3.47	375-73-5	
PFHpA*	Not detected	35		ng/kg	3.47	375-85-9	
PFPeS*	Not detected	35		ng/kg	3.47	2706-91-4	
6:2 FTSA*	Not detected	35		ng/kg	3.47	27619-97-2	
PFOA*	45	35		ng/kg	3.47	335-67-1	
PFHxS*	Not detected	35		ng/kg	3.47	355-46-4	
PFHxS-LN*	Not detected	35		ng/kg	3.47	355-46-4-LN	
PFHxS-BR*	Not detected	35		ng/kg	3.47	355-46-4-BR	
PFNA*	Not detected	35		ng/kg	3.47	375-95-1	
8:2 FTSA*	Not detected	35		ng/kg	3.47	39108-34-4	
PFHpS*	Not detected	35		ng/kg	3.47	375-92-8	
PFDA*	Not detected	35		ng/kg	3.47	335-76-2	
N-MeFOSAA*	Not detected	35		ng/kg	3.47	2355-31-9	
EtFOSAA*	Not detected	35		ng/kg	3.47	2991-50-6	
PFOS*	Not detected	35		ng/kg	3.47	1763-23-1	
PFOS-LN*	Not detected	35		ng/kg	3.47	1763-23-1-LN	
PFOS-BR*	Not detected	35		ng/kg	3.47	1763-23-1-BR	
PFUnDA*	Not detected	35		ng/kg	3.47	2058-94-8	
PFNS*	Not detected	35		ng/kg	3.47	474511-07-4	
PFDoDA*	Not detected	35		ng/kg	3.47	307-55-1	I
PFDS*	Not detected	35		ng/kg	3.47	335-77-3	
PFTrDA*	Not detected	35		ng/kg	3.47	72629-94-8	I
FOSA*	Not detected	35		ng/kg	3.47	754-91-6	
PFTeDA*	Not detected	35		ng/kg	3.47	376-06-7	

I-Matrix interference with internal standard

Lab Sample ID: S00005.11
Sample Tag: SB-05-27(03182019)
Collected Date/Time: 03/18/2019 13:00
Matrix: Groundwater
COC Reference: 121189

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	3.1	IR

Organics

24 PFAs, Method: ASTMD7979-17M, Run Date: 04/06/19 20:56, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	300		ng/L	1.96	375-22-4	X
PFPeA*	Not detected	82		ng/L	1.96	2706-90-3	X
4:2 FTSA*	Not detected	9.8		ng/L	1.96	757124-72-4	I
PFHxA*	Not detected	9.8		ng/L	1.96	307-24-4	
PFBS*	Not detected	9.8		ng/L	1.96	375-73-5	
PFHpA*	Not detected	9.8		ng/L	1.96	375-85-9	
PFPeS*	Not detected	9.8		ng/L	1.96	2706-91-4	
6:2 FTSA*	Not detected	9.8		ng/L	1.96	27619-97-2	I
PFOA*	13	9.8		ng/L	1.96	335-67-1	
PFHxS*	Not detected	20		ng/L	1.96	355-46-4	X
PFHxS-LN*	Not detected	18		ng/L	1.96	355-46-4-LN	X
PFHxS-BR*	Not detected	9.8		ng/L	1.96	355-46-4-BR	
PFNA*	Not detected	9.8		ng/L	1.96	375-95-1	
8:2 FTSA*	Not detected	9.8		ng/L	1.96	39108-34-4	I
PFHpS*	Not detected	9.8		ng/L	1.96	375-92-8	
PFDA*	Not detected	9.8		ng/L	1.96	335-76-2	
N-MeFOSAA*	Not detected	9.8		ng/L	1.96	2355-31-9	
EtFOSAA*	Not detected	9.8		ng/L	1.96	2991-50-6	
PFOS*	49	9.8		ng/L	1.96	1763-23-1	
PFOS-LN*	24	9.8		ng/L	1.96	1763-23-1-LN	
PFOS-BR*	26	9.8		ng/L	1.96	1763-23-1-BR	
PFUnDA*	Not detected	9.8		ng/L	1.96	2058-94-8	
PFNS*	Not detected	9.8		ng/L	1.96	474511-07-4	
PFDoDA*	Not detected	9.8		ng/L	1.96	307-55-1	
PFDS*	Not detected	9.8		ng/L	1.96	335-77-3	
PFTrDA*	Not detected	9.8		ng/L	1.96	72629-94-8	
FOSA*	Not detected	9.8		ng/L	1.96	754-91-6	
PFTeDA*	Not detected	9.8		ng/L	1.96	376-06-7	

X-Elevated reporting limit due to matrix interference
I-Matrix interference with internal standard

Lab Sample ID: S00005.12
Sample Tag: SB-10-28(03182019)
Collected Date/Time: 03/18/2019 15:00
Matrix: Groundwater
COC Reference: 121189

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	3.1	IR

Organics

24 PFAs, Method: ASTMD7979-17M, Run Date: 04/06/19 21:15, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	95		ng/L	1.97	375-22-4	X
PFPeA*	Not detected	18		ng/L	1.97	2706-90-3	X
4:2 FTSA*	Not detected	9.9		ng/L	1.97	757124-72-4	I
PFHxA*	Not detected	9.9		ng/L	1.97	307-24-4	
PFBS*	Not detected	9.9		ng/L	1.97	375-73-5	
PFHpA*	Not detected	9.9		ng/L	1.97	375-85-9	
PFPeS*	Not detected	9.9		ng/L	1.97	2706-91-4	
6:2 FTSA*	Not detected	9.9		ng/L	1.97	27619-97-2	I
PFOA*	13	9.9		ng/L	1.97	335-67-1	
PFHxS*	Not detected	11		ng/L	1.97	355-46-4	X
PFHxS-LN*	Not detected	11		ng/L	1.97	355-46-4-LN	X
PFHxS-BR*	Not detected	9.9		ng/L	1.97	355-46-4-BR	
PFNA*	Not detected	9.9		ng/L	1.97	375-95-1	
8:2 FTSA*	Not detected	9.9		ng/L	1.97	39108-34-4	
PFHpS*	Not detected	9.9		ng/L	1.97	375-92-8	
PFDA*	Not detected	9.9		ng/L	1.97	335-76-2	
N-MeFOSAA*	Not detected	9.9		ng/L	1.97	2355-31-9	
EtFOSAA*	Not detected	9.9		ng/L	1.97	2991-50-6	
PFOS*	14	9.9		ng/L	1.97	1763-23-1	
PFOS-LN*	Not detected	9.9		ng/L	1.97	1763-23-1-LN	
PFOS-BR*	11	9.9		ng/L	1.97	1763-23-1-BR	
PFUnDA*	Not detected	9.9		ng/L	1.97	2058-94-8	
PFNS*	Not detected	9.9		ng/L	1.97	474511-07-4	
PFDoDA*	Not detected	9.9		ng/L	1.97	307-55-1	
PFDS*	Not detected	9.9		ng/L	1.97	335-77-3	
PFTrDA*	Not detected	9.9		ng/L	1.97	72629-94-8	
FOSA*	Not detected	9.9		ng/L	1.97	754-91-6	
PFTeDA*	Not detected	9.9		ng/L	1.97	376-06-7	

X-Elevated reporting limit due to matrix interference
I-Matrix interference with internal standard

Analytical Laboratory Report

Lab Sample ID: S00005.13
Sample Tag: SB-10-31(03182019)
Collected Date/Time: 03/18/2019 16:45
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	3.1	IR

Organics

24 PFAs, Method: ASTMD7979-17M, Run Date: 04/06/19 21:35, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	310		ng/L	2.04	375-22-4	X
PFPeA*	Not detected	71		ng/L	2.04	2706-90-3	X
4:2 FTSA*	Not detected	10		ng/L	2.04	757124-72-4	I
PFHxA*	Not detected	21		ng/L	2.04	307-24-4	X
PFBS*	Not detected	10		ng/L	2.04	375-73-5	
PFHpA*	Not detected	10		ng/L	2.04	375-85-9	
PFPeS*	Not detected	10		ng/L	2.04	2706-91-4	
6:2 FTSA*	Not detected	10		ng/L	2.04	27619-97-2	I
PFOA*	31	10		ng/L	2.04	335-67-1	
PFHxS*	Not detected	12		ng/L	2.04	355-46-4	X
PFHxS-LN*	Not detected	12		ng/L	2.04	355-46-4-LN	X
PFHxS-BR*	Not detected	10		ng/L	2.04	355-46-4-BR	
PFNA*	Not detected	10		ng/L	2.04	375-95-1	
8:2 FTSA*	Not detected	10		ng/L	2.04	39108-34-4	I
PFHpS*	Not detected	10		ng/L	2.04	375-92-8	
PFDA*	Not detected	10		ng/L	2.04	335-76-2	
N-MeFOSAA*	Not detected	10		ng/L	2.04	2355-31-9	
EtFOSAA*	Not detected	10		ng/L	2.04	2991-50-6	
PFOS*	21	10		ng/L	2.04	1763-23-1	
PFOS-LN*	Not detected	10		ng/L	2.04	1763-23-1-LN	
PFOS-BR*	18	10		ng/L	2.04	1763-23-1-BR	
PFUnDA*	Not detected	10		ng/L	2.04	2058-94-8	
PFNS*	Not detected	10		ng/L	2.04	474511-07-4	
PFDoDA*	Not detected	10		ng/L	2.04	307-55-1	
PFDS*	Not detected	10		ng/L	2.04	335-77-3	
PFTrDA*	Not detected	10		ng/L	2.04	72629-94-8	
FOSA*	Not detected	10		ng/L	2.04	754-91-6	
PFTeDA*	Not detected	10		ng/L	2.04	376-06-7	

X-Elevated reporting limit due to matrix interference
I-Matrix interference with internal standard

Merit Laboratories Login Checklist

Lab Set ID: S00005
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: B0064410.2019.03100 / Buick City RACER
Submitted: 03/19/2019 08:15 Login User: MMC

Attention: Kristen VanDenBerge
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 231-534-5092 FAX: 248-994-2241
Email: kristen.Vandenberge@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.1
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[X] Yes	[ ] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[X] Yes	[ ] No	[ ] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

121189

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Kristen VanDenBerge
COMPANY: Arcadis of Michigan, LLC
ADDRESS: 28550 Cabot Drive, Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 231-534-5092 FAX NO.: 248-994-2241 P.O. NO.: B0064410.2019.03100
E-MAIL ADDRESS: Kristen.VanDenBerge@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: X SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: B0064410.2019.03100 / Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Austin Westhuis / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS X STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III X LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
X Other MI

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PFAS (ASTM D7979)
00005.01	3/18/19	0930	SB-05-26(1-3)_03182019	S	4	4							X
.02	3/18/19	0955	SB-05-26(11-13)_03182019	S	4	4							X
.03	3/18/19	0915	SB-10-28(1-3)_03182019	S	4	4							X
.04	3/18/19	0945	SB-10-28(10-12)_03182019	S	4	4							X
.05	3/18/19	1015	SB-10-29(1-3)_03182019	S	4	4							X
.06	3/18/19	1045	SB-10-29(10-12)_03182019	S	4	4							X
.07	3/18/19	1100	SB-81-21(03182019)	GW	3	3							X
.08	3/18/19	—	Dup-03(03182019)	GW	3	3							X
.09	3/18/19	1130	SB-05-23(1-3)_03182019	S	4	4							X
.10	3/18/19	1145	SB-05-23(11.5-13.5)_03182019	S	4	4							X
.11	3/18/19	1300	SB-05-27(03182019)	GW	3	3							X
.12	3/18/19	1500	SB-10-28(03182019)	GW	3	3							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Brian Pettit / Arcadis ☐ Sampler	DATE 3/18/19	TIME 1900
RECEIVED BY: SIGNATURE/ORGANIZATION	Merit Dropbox Locker	DATE 3/18/19	TIME 1900
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Merit Drop Box	DATE 3/19/19	TIME 0815
RECEIVED BY: SIGNATURE/ORGANIZATION	M Chitwood	DATE 3/19/19	TIME 0815

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Please also email results to [illegible]

Merit Laboratories, Inc.
2980 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1 121189 3/18/19

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Kristen VanDenBerge
COMPANY: Arcadis of Michigan, LLC
ADDRESS: 28550 Cabot Drive, Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 231-534-5092 FAX NO.: 248-994-2241 P.O. NO.: B00644410.2019.03100
E-MAIL ADDRESS: Kristen.VanDenBerge@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: X SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: B00644410.2019.03100 / Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Austin Westhuis / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS X STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III X LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
X Other MI

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PFAS (ASTM D7979)
00005.13	3/18/19	1645	SB-10-31 C03181019 J	GW	3	3							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Britt Pent / Arcadis ☐ Sampler DATE: 3/18/19 TIME: 1900
RECEIVED BY: SIGNATURE/ORGANIZATION: Merit Dropbox Locker DATE: 3/18/19 TIME: 1900
RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Merit Drop Box DATE: 3/19/19 TIME: 0815
RECEIVED BY: SIGNATURE/ORGANIZATION: M Chilcote DATE: 3/19/19 TIME: 0815

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Please also email results to: Micki.Maki@arcadis.com, Erin.Kozak@arcadis.com, and Megan.Humphrey@arcadis.com

Analytical Laboratory Report

Report ID: S09445.01(01)
Generated on 11/25/2019

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S09445.01-S09445.13
Project: 30006800.01904 Buick City
Collected Date(s): 11/15/2019
Submitted Date/Time: 11/18/2019 16:00
Sampled by: Unknown
P.O. #: 30006800.01904

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (13 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S09445.01	SB-81-30(0-2)_11152019	Soil	11/15/19 10:40
S09445.02	SB-81-30(3-5)_11152019	Soil	11/15/19 10:50
S09445.03	SB-81-34(0-2)_11152019	Soil	11/15/19 11:48
S09445.04	SB-81-34(2-4)_11152019	Soil	11/15/19 11:50
S09445.05	SB-81-34(4-6)_11152019	Soil	11/15/19 11:52
S09445.06	SB-81-33(0-2)_11152019	Soil	11/15/19 13:05
S09445.07	SB-81-31(0-2)_11152019	Soil	11/15/19 13:30
S09445.08	SB-81-31(3-5)_11152019	Soil	11/15/19 13:35
S09445.09	SB-81-31(7-9)_11152019	Soil	11/15/19 13:40
S09445.10	SB-81-23(0-2)_11152019	Soil	11/15/19 14:30
S09445.11	SB-81-24(0-2)_11152019	Soil	11/15/19 15:20
S09445.12	SB-81-24(3-5)_11152019	Soil	11/15/19 15:22
S09445.13	SB-81-24(7-9)_11152019	Soil	11/15/19 15:25

Analytical Laboratory Report

Lab Sample ID: S09445.01
Sample Tag: SB-81-30(0-2)_11152019
Collected Date/Time: 11/15/2019 10:40
Matrix: Soil
COC Reference: 116773

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/19/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/19/19 14:40, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/22/19 11:59, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09445.02
Sample Tag: SB-81-30(3-5)_11152019
Collected Date/Time: 11/15/2019 10:50
Matrix: Soil
COC Reference: 116773

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/19/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/19/19 14:40, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/22/19 17:06, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	1,500	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S09445.03
Sample Tag: SB-81-34(0-2)_11152019
Collected Date/Time: 11/15/2019 11:48
Matrix: Soil
COC Reference: 116773

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/19/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/19/19 14:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/22/19 16:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y
PCB-1242	Not detected	1,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y
PCB-1254	8,000	1,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S09445.04
Sample Tag: SB-81-34(2-4)_11152019
Collected Date/Time: 11/15/2019 11:50
Matrix: Soil
COC Reference: 116773

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/19/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/19/19 14:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/22/19 16:32, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y
PCB-1242	Not detected	1,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y
PCB-1254	7,400	1,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S09445.05
Sample Tag: SB-81-34(4-6)_11152019
Collected Date/Time: 11/15/2019 11:52
Matrix: Soil
COC Reference: 116773

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/19/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/19/19 14:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/22/19 17:17, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	900	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09445.06
Sample Tag: SB-81-33(0-2)_11152019
Collected Date/Time: 11/15/2019 13:05
Matrix: Soil
COC Reference: 116773

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/19/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/19/19 14:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/22/19 16:44, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	1,200	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09445.07
Sample Tag: SB-81-31(0-2)_11152019
Collected Date/Time: 11/15/2019 13:30
Matrix: Soil
COC Reference: 116773

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/19/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/19/19 14:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/22/19 16:55, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	1,100	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S09445.08
Sample Tag: SB-81-31(3-5)_11152019
Collected Date/Time: 11/15/2019 13:35
Matrix: Soil
COC Reference: 116773

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/19/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/19/19 14:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/22/19 14:35, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	3	12674-11-2	
PCB-1242	Not detected	330		ug/kg	3	53469-21-9	
PCB-1221	Not detected	330		ug/kg	3	11104-28-2	
PCB-1232	Not detected	330		ug/kg	3	11141-16-5	
PCB-1248	Not detected	330		ug/kg	3	12672-29-6	
PCB-1254	Not detected	330		ug/kg	3	11097-69-1	
PCB-1260	Not detected	330		ug/kg	3	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09445.09
Sample Tag: SB-81-31(7-9)_11152019
Collected Date/Time: 11/15/2019 13:40
Matrix: Soil
COC Reference: 116773

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/19/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/19/19 14:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/22/19 15:13, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09445.10
Sample Tag: SB-81-23(0-2)_11152019
Collected Date/Time: 11/15/2019 14:30
Matrix: Soil
COC Reference: 116773

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/19/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/19/19 14:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/22/19 15:31, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	400	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09445.11
Sample Tag: SB-81-24(0-2)_11152019
Collected Date/Time: 11/15/2019 15:20
Matrix: Soil
COC Reference: 116773

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/19/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/19/19 14:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/22/19 14:46, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09445.12
Sample Tag: SB-81-24(3-5)_11152019
Collected Date/Time: 11/15/2019 15:22
Matrix: Soil
COC Reference: 116773

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/19/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/19/19 14:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/22/19 12:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09445.13
Sample Tag: SB-81-24(7-9)_11152019
Collected Date/Time: 11/15/2019 15:25
Matrix: Soil
COC Reference: 116788

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/19/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/19/19 14:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/22/19 13:01, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S09445
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30006800.01904 Buick City
Submitted: 11/18/2019 16:00 Login User: SRS

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.7
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[ ] Yes	[ ] No	[X] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

116773

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Megan Humphrey / Erin Kozak / Micki Maki
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr Suite 500
CITY: Nov STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.019.04 Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Benzo(a)pyrene	Lead	Manganese
094505.01	11.15.19	1040	SB-81-30 (0-2)_11152019	S	1	X							X			
.02	11.15.19	1050	SB-81-30 (3-5)_11152019	S	1	X							X			
.03	11.15.19	1148	SB-81-34 (0-2)_11152019	S	1	X							X			
.04	"	1150	SB-81-34 (2-4)_11152019	S	1	X							X			
.05	"	1152	SB-81-34 (4-6)_11152019	S	1	X							X			
.06	"	1305	SB-81-33 (0-2)_11152019	S	1	X							X			
.07	"	1330	SB-81-31 (0-2)_11152019	↓	↓	↓							↓			
.08	"	1335	SB-81-31 (3-5)_11152019													
.09	"	1340	SB-81-31 (7-9)_11152019													
.10	"	1430	SB-81-23 (0-2)_11152019													
.11	"	1520	SB-81-24 (0-2)_11152019													
.12	"	1522	SB-81-24 (3-5)_11152019													

RELINQUISHED BY: SIGNATURE/ORGANIZATION ☐ Sampler	Arcadis	DATE 11/18/19	TIME 15:00
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 11/18/19	TIME 15:00
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 11/18/19	TIME 16:00
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 11/18/19	TIME 16:00

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.
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www.meritlabs.com

C.O.C. PAGE # 2 OF 2

116788

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME
COMPANY
ADDRESS
CITY | STATE | ZIP CODE
PHONE NO. | FAX NO. | P.O. NO.
E-MAIL ADDRESS | QUOTE NO.

INVOICE TO

CONTACT NAME | ☐ SAME
COMPANY
ADDRESS
CITY | STATE | ZIP CODE
PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME | SAMPLER(S) - PLEASE PRINT/SIGN NAME

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other _____

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Benzo(a) Pyrene	Lead Manganese
09445.13	11.15.19	1525	SB-81-24 (7-9)_11152019	S	1	X							X		

RELINQUISHED BY: SIGNATURE/ORGANIZATION ☐ Sampler DATE 11/18/19 TIME 15:00
RECEIVED BY: SIGNATURE/ORGANIZATION DATE 11/18/19 TIME 15:00
RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE 11/18/19 TIME 16:0
RECEIVED BY: SIGNATURE/ORGANIZATION DATE 11/18/19 TIME 1600

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S09508.01(01)
Generated on 11/26/2019

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S09508.01-S09508.16
Project: 30006800.01904 Buick City
Collected Date(s): 11/18/2019
Submitted Date/Time: 11/20/2019 08:15
Sampled by: Unknown
P.O. #: 30006800.01904

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (16 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S09508.01	SB-81-28(0-2)_11182019	Soil	11/18/19 09:25
S09508.02	SB-81-28(3-5)_11182019	Soil	11/18/19 09:30
S09508.03	SB-81-29(0-2)_11182019	Soil	11/18/19 09:35
S09508.04	SB-81-25(0-2)_11182019	Soil	11/18/19 10:10
S09508.05	SB-81-25(3-5)_11182019	Soil	11/18/19 10:12
S09508.06	SB-81-27(0-2)_11182019	Soil	11/18/19 11:19
S09508.07	SB-81-27(3-5)_11182019	Soil	11/18/19 11:25
S09508.08	SB-81-26(0-2)_11182019	Soil	11/18/19 12:30
S09508.09	SB-81-26(3-5)_11182019	Soil	11/18/19 12:45
S09508.10	SB-81-23(3-5)_11182019	Soil	11/18/19 13:15
S09508.11	SB-81-23(7-9)_11182019	Soil	11/18/19 13:25
S09508.12	SB-81-25(7-9)_11182019	Soil	11/18/19 13:45
S09508.13	SB-81-30(3-5)_11182019	Soil	11/18/19 14:15
S09508.14	SB-81-30(7-9)_11182019	Soil	11/18/19 14:20
S09508.15	SB-81-29(3-5)_11182019	Soil	11/18/19 14:40
S09508.16	SB-81-29(7-9)_11182019	Soil	11/18/19 15:00

Analytical Laboratory Report

Lab Sample ID: S09508.01
Sample Tag: SB-81-28(0-2)_11182019
Collected Date/Time: 11/18/2019 09:25
Matrix: Soil
COC Reference: 116791

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/20/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/21/19 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/25/19 16:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09508.02
Sample Tag: SB-81-28(3-5)_11182019
Collected Date/Time: 11/18/2019 09:30
Matrix: Soil
COC Reference: 116791

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/20/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/21/19 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/25/19 18:15, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	900	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S09508.03
Sample Tag: SB-81-29(0-2)_11182019
Collected Date/Time: 11/18/2019 09:35
Matrix: Soil
COC Reference: 116791

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/20/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/21/19 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/25/19 17:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09508.04
Sample Tag: SB-81-25(0-2)_11182019
Collected Date/Time: 11/18/2019 10:10
Matrix: Soil
COC Reference: 116791

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/20/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/21/19 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/26/19 14:05, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	60	12674-11-2	
PCB-1242	Not detected	330		ug/kg	60	53469-21-9	
PCB-1221	Not detected	330		ug/kg	60	11104-28-2	
PCB-1232	Not detected	330		ug/kg	60	11141-16-5	
PCB-1248	Not detected	330		ug/kg	60	12672-29-6	
PCB-1254	2,000	330		ug/kg	60	11097-69-1	
PCB-1260	Not detected	330		ug/kg	60	11096-82-5	

Lab Sample ID: S09508.05
Sample Tag: SB-81-25(3-5)_11182019
Collected Date/Time: 11/18/2019 10:12
Matrix: Soil
COC Reference: 116791

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/20/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/21/19 10:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/25/19 18:37, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	1,700	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S09508.06
Sample Tag: SB-81-27(0-2)_11182019
Collected Date/Time: 11/18/2019 11:19
Matrix: Soil
COC Reference: 116791

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/20/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/21/19 10:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Lab Sample ID: S09508.07
Sample Tag: SB-81-27(3-5)_11182019
Collected Date/Time: 11/18/2019 11:25
Matrix: Soil
COC Reference: 116791

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/20/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/21/19 10:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Lab Sample ID: S09508.08
Sample Tag: SB-81-26(0-2)_11182019
Collected Date/Time: 11/18/2019 12:30
Matrix: Soil
COC Reference: 116791

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/20/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/21/19 10:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Lab Sample ID: S09508.09
Sample Tag: SB-81-26(3-5)_11182019
Collected Date/Time: 11/18/2019 12:45
Matrix: Soil
COC Reference: 116791

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/20/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/21/19 10:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Analytical Laboratory Report

Lab Sample ID: S09508.10
Sample Tag: SB-81-23(3-5)_11182019
Collected Date/Time: 11/18/2019 13:15
Matrix: Soil
COC Reference: 116791

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/20/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/21/19 10:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/26/19 14:16, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	60	12674-11-2	
PCB-1242	Not detected	330		ug/kg	60	53469-21-9	
PCB-1221	Not detected	330		ug/kg	60	11104-28-2	
PCB-1232	Not detected	330		ug/kg	60	11141-16-5	
PCB-1248	Not detected	330		ug/kg	60	12672-29-6	
PCB-1254	2,700	330		ug/kg	60	11097-69-1	
PCB-1260	Not detected	330		ug/kg	60	11096-82-5	

Lab Sample ID: S09508.11
Sample Tag: SB-81-23(7-9)_11182019
Collected Date/Time: 11/18/2019 13:25
Matrix: Soil
COC Reference: 116791

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/20/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/21/19 10:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	70	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/25/19 17:48, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09508.12
Sample Tag: SB-81-25(7-9)_11182019
Collected Date/Time: 11/18/2019 13:45
Matrix: Soil
COC Reference: 116791

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/20/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/21/19 10:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/25/19 18:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09508.13
Sample Tag: SB-81-30(3-5)_11182019
Collected Date/Time: 11/18/2019 14:15
Matrix: Soil
COC Reference: 116790

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/20/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/21/19 10:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/26/19 13:54, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	5,600	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S09508.14
Sample Tag: SB-81-30(7-9)_11182019
Collected Date/Time: 11/18/2019 14:20
Matrix: Soil
COC Reference: 116790

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/20/19 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/21/19 10:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/25/19 18:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09508.15
Sample Tag: SB-81-29(3-5)_11182019
Collected Date/Time: 11/18/2019 14:40
Matrix: Soil
COC Reference: 116790

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/21/19 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/21/19 10:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/25/19 18:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09508.16
Sample Tag: SB-81-29(7-9)_11182019
Collected Date/Time: 11/18/2019 15:00
Matrix: Soil
COC Reference: 116790

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/21/19 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 11/21/19 10:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/25/19 18:35, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S09508
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30006800.01904 Buick City
Submitted: 11/20/2019 08:15 Login User: MMC

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.4
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
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C.O.C. PAGE # 1 OF 2

116791

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Megan Humphrey / Erin Kozak / Michi Maki
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr. Suite 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO. | FAX NO. | P.O. NO.
E-MAIL ADDRESS | QUOTE NO.

INVOICE TO

CONTACT NAME | ☐ SAME
COMPANY
ADDRESS
CITY | STATE | ZIP CODE
PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME: 30006800.01904 Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other _____

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Benzo(a)Pyrene	Lead	Manganese
09508.01	11-18-19	9:25	SB-81-28(0-2).11182019	S	1	X										
.02	11-18-19	9:30	SB-81-28(3-5).11182019													
.03	11-18-19	9:35	SB-81-29(0-2).11182019													
.04	11-18-19	10:10	SB-81-25(0-2).11182019													
.05	11-18-19	10:12	SB-81-25(3-5).11182019													
.06	11-18-19	11:19	SB-81-27(0-2).11182019													
.07	11-18-19	11:25	SB-81-27(3-5).11182019													
.08	11-18-19	12:30	SB-81-26(0-2).11182019													
.09	11-18-19	12:45	SB-81-26(3-5).11182019													
.10	11-18-19	1:15	SB-81-23(3-5).11182019													
.11	11-18-19	1:25	SB-81-23(7-9).11182019													
.12	11-18-19	1:45	SB-81-25(7-9).11182019													

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☐ Sampler	DATE 11-19-19	TIME 3:28
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 11/19/19	TIME 3:28
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 11/19/19	TIME 17:15
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 11/19/19	TIME 17:15

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: TEMP. ON ARRIVAL 4.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

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C.O.C. PAGE # 2 OF 2

116790

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Megan Humphrey / Erin Kozak / Micki Maki
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr. Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904 Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
09508.13	11-18-19	2:15	SB-81-30 (3-5). 11182019	S	1	✓							↓
.14	11-18-19	2:20	SB-81-30 (7-9). 11182019	↓	↓	↓							
.15	11-18-19	2:40	SB-81-29 (3-5). 11182019										
.16	11-18-19	3:00	SB-81-29 (7-9). 11182019										

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☐ Sampler	DATE	TIME
		11-19-19	3:28
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
		11/19/19	3:35
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
		11/19/19	17:15
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
		11/19/19	17:15

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Revised Report

Report ID: S09614.01(03)
Generated on 01/20/2020
Replaces report S09614.01(02) generated on 12/19/2019

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki

Report produced by

Merit Laboratories, Inc.
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Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S09614.01-S09614.32
Project: 30006800.01904 Buick City
Collected Date(s): 11/19/2019 - 11/21/2019
Submitted Date/Time: 11/22/2019 08:15
Sampled by: Unknown
P.O. #: 30006800.01904

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

Sample tags updated per client request

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8270D	SW 846 Method 8270D Revision 4 February 2007

Sample Summary (32 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S09614.01	EP-94-02AR(0.5-2.5)_11212019	Soil	11/21/19 09:10
S09614.02	SB-FEP-20(0-2)_11212019	Soil	11/21/19 10:00
S09614.03	SB-FEP-20(2-4)_11212019	Soil	11/21/19 10:10
S09614.04	SB-FEP-20(4-6)_11212019	Soil	11/21/19 10:15
S09614.05	SB-83/84-45(0-2)_11192019	Soil	11/19/19 15:28
S09614.06	SB-83/84-45(8-10)_11192019	Soil	11/19/19 15:32
S09614.07	SB-81-32(3.5)_11192019	Soil	11/19/19 14:20
S09614.08	SB-81-32(3.5-5)_11192019	Soil	11/19/19 14:40
S09614.09	SB-03-03-03(3-5)_11192019	Soil	11/19/19 13:55
S09614.10	SB-03-03-03(8-10)_11192019	Soil	11/19/19 14:05
S09614.11	SB-03-07(4-5)_11192019	Soil	11/19/19 13:38
S09614.12	SB-03-07(8-10)_11192019	Soil	11/19/19 13:48
S09614.13	SB-03-09(2-3)_11192019	Soil	11/19/19 13:15
S09614.14	SB-03-09(8-10)_11192019	Soil	11/19/19 13:20
S09614.15	SB-03-08(1-3)_11192019	Soil	11/19/19 12:55
S09614.16	SB-03-08(8-10)_11192019	Soil	11/19/19 13:10
S09614.17	SB-81-33(2-4)_11192019	Soil	11/19/19 09:48
S09614.18	SB-81-33(4-6)_11192019	Soil	11/19/19 09:58
S09614.19	SB-81-28(7-9)_11192019	Soil	11/19/19 09:10
S09614.20	TW-43-165-7R(1-3)_11202019	Soil	11/20/19 09:25
S09614.21	SB-40-21(0-2)_11202019	Soil	11/20/19 10:08
S09614.22	SB-40-22(0-2)_11202019	Soil	11/20/19 11:15
S09614.23	SB-40-22(2-4)_11202019	Soil	11/20/19 11:20
S09614.24	SB-40-22(4-6)_11202019	Soil	11/20/19 11:25
S09614.25	SB-84-16(0-2)_11202019	Soil	11/20/19 11:58
S09614.26	SB-84-16(2-4)_11202019	Soil	11/20/19 12:10
S09614.27	SB-94-05A(1-3)_11202019	Soil	11/20/19 14:08
S09614.28	SB-94-06(1-3)_11202019	Soil	11/20/19 14:15
S09614.29	SB-94-07A(1-3)_11202019	Soil	11/20/19 14:15
S09614.30	SB-94-06(3-5)_11202019	Soil	11/20/19 14:15
S09614.31	SB-40-21(4-6)_11202019	Soil	11/20/19 10:30
S09614.32	SB-40-21(2-4)_11202019	Soil	11/20/19 10:40

Lab Sample ID: S09614.01
Sample Tag: EP-94-02AR(0.5-2.5)_11212019
Collected Date/Time: 11/21/2019 09:10
Matrix: Soil
COC Reference: 114803

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:20, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 18:37, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.02
Sample Tag: SB-FEP-20(0-2)_11212019
Collected Date/Time: 11/21/2019 10:00
Matrix: Soil
COC Reference: 114803

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:20, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Other / Misc.

Method: , Run Date: 11/25/19 14:30, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S09614.03
Sample Tag: SB-FEP-20(2-4)_11212019
Collected Date/Time: 11/21/2019 10:10
Matrix: Soil
COC Reference: 114803

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 12:40	CCM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:20, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 15:22, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	7.82	0.30		mg/kg	220	7439-92-1	

Lab Sample ID: S09614.04
Sample Tag: SB-FEP-20(4-6)_11212019
Collected Date/Time: 11/21/2019 10:15
Matrix: Soil
COC Reference: 114803

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:20, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Other / Misc.

Method: , Run Date: 11/25/19 14:30, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S09614.05
Sample Tag: SB-83/84-45(0-2)_11192019
Collected Date/Time: 11/19/2019 15:28
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 02:45, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330		ug/kg	7.5	83-32-9	
Acenaphthylene	Not detected	330		ug/kg	7.5	208-96-8	
Anthracene	Not detected	330		ug/kg	7.5	120-12-7	
Benzo(a)anthracene	Not detected	330		ug/kg	7.5	56-55-3	
Benzo(b)fluoranthene	Not detected	330		ug/kg	7.5	205-99-2	
Benzo(k)fluoranthene	Not detected	330		ug/kg	7.5	207-08-9	
Benzo(ghi)perylene	Not detected	330		ug/kg	7.5	191-24-2	
Benzo(a)pyrene	Not detected	330		ug/kg	7.5	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	330		ug/kg	7.5	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330		ug/kg	7.5	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330		ug/kg	7.5	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	330		ug/kg	7.5	117-81-7	
4-Bromophenyl phenyl ether	Not detected	330		ug/kg	7.5	101-55-3	
Butyl benzyl phthalate	Not detected	330		ug/kg	7.5	85-68-7	
4-Chloroaniline	Not detected	330		ug/kg	7.5	106-47-8	
2-Chloronaphthalene	Not detected	330		ug/kg	7.5	91-58-7	
4-Chloro-3-methylphenol	Not detected	280		ug/kg	7.5	59-50-7	
2-Chlorophenol	Not detected	330		ug/kg	7.5	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	330		ug/kg	7.5	7005-72-3	
Chrysene	Not detected	330		ug/kg	7.5	218-01-9	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330		ug/kg	7.5	3/4-CRESOL	
2-Methylphenol (o-Cresol)	Not detected	330		ug/kg	7.5	95-48-7	
Dibenzo(ah)anthracene	Not detected	330		ug/kg	7.5	53-70-3	
Dibenzofuran	Not detected	330		ug/kg	7.5	132-64-9	
di-n-Butyl phthalate	Not detected	330		ug/kg	7.5	84-74-2	
1,2-Dichlorobenzene*	Not detected	330		ug/kg	7.5	95-50-1	
1,3-Dichlorobenzene	Not detected	330		ug/kg	7.5	541-73-1	
1,4-Dichlorobenzene	Not detected	330		ug/kg	7.5	106-46-7	
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	7.5	91-94-1	
2,4-Dichlorophenol	Not detected	330		ug/kg	7.5	120-83-2	
Diethyl phthalate	Not detected	330		ug/kg	7.5	84-66-2	
2,4-Dimethylphenol	Not detected	330		ug/kg	7.5	105-67-9	

Lab Sample ID: S09614.05 (continued)
Sample Tag: SB-83/84-45(0-2)_11192019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 02:45, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dimethyl phthalate	Not detected	330		ug/kg	7.5	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	7.5	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	7.5	51-28-5	
2,4-Dinitrotoluene	Not detected	330		ug/kg	7.5	121-14-2	
2,6-Dinitrotoluene	Not detected	330		ug/kg	7.5	606-20-2	
1,2-Diphenylhydrazine	Not detected	330		ug/kg	7.5	122-66-7	
di-n-Octyl phthalate	Not detected	330		ug/kg	7.5	117-84-0	
Fluoranthene	390	330		ug/kg	7.5	206-44-0	
Fluorene	Not detected	330		ug/kg	7.5	86-73-7	
Hexachlorobenzene	Not detected	330		ug/kg	7.5	118-74-1	
Hexachlorobutadiene	Not detected	330		ug/kg	7.5	87-68-3	
Hexachlorocyclopentadiene	Not detected	330		ug/kg	7.5	77-47-4	
Hexachloroethane	Not detected	330		ug/kg	7.5	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	330		ug/kg	7.5	193-39-5	
Isophorone	Not detected	330		ug/kg	7.5	78-59-1	
2-Methylnaphthalene	360	330		ug/kg	7.5	91-57-6	
Naphthalene	780	330		ug/kg	7.5	91-20-3	
2-Nitroaniline	Not detected	830		ug/kg	7.5	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	7.5	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	7.5	100-01-6	
Nitrobenzene	Not detected	330		ug/kg	7.5	98-95-3	
2-Nitrophenol	Not detected	330		ug/kg	7.5	88-75-5	
4-Nitrophenol	Not detected	830		ug/kg	7.5	100-02-7	
N-Nitrosodiphenylamine	Not detected	330		ug/kg	7.5	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	330		ug/kg	7.5	621-64-7	
Pentachlorophenol	Not detected	330		ug/kg	7.5	87-86-5	
Phenanthrene	770	330		ug/kg	7.5	85-01-8	
Phenol	Not detected	330		ug/kg	7.5	108-95-2	
Pyrene	Not detected	330		ug/kg	7.5	129-00-0	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	7.5	120-82-1	
2,4,5-Trichlorophenol	Not detected	330		ug/kg	7.5	95-95-4	
2,4,6-Trichlorophenol	Not detected	330		ug/kg	7.5	88-06-2	

Lab Sample ID: S09614.06
Sample Tag: SB-83/84-45(8-10)_11192019
Collected Date/Time: 11/19/2019 15:32
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	
BNA Extraction (Replicate 01)*	Completed	SW3546	11/26/19 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 04:17, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	590		ug/kg	20	83-32-9	XS
Acenaphthylene	Not detected	590		ug/kg	20	208-96-8	XS
Anthracene	Not detected	590		ug/kg	20	120-12-7	X
Benzo(a)anthracene	930	590		ug/kg	20	56-55-3	X
Benzo(b)fluoranthene	Not detected	590		ug/kg	20	205-99-2	X
Benzo(k)fluoranthene	Not detected	590		ug/kg	20	207-08-9	X
Benzo(ghi)perylene	Not detected	590		ug/kg	20	191-24-2	X
Benzo(a)pyrene	Not detected	590		ug/kg	20	50-32-8	X
bis(2-Chloroethoxy)methane	Not detected	590		ug/kg	20	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	590		ug/kg	20	111-44-4	XS
bis(2-Chloroisopropyl)ether*	Not detected	590		ug/kg	20	108-60-1	XS
bis(2-Ethylhexyl)phthalate	Not detected	590		ug/kg	20	117-81-7	X
4-Bromophenyl phenyl ether	Not detected	590		ug/kg	20	101-55-3	X
Butyl benzyl phthalate	Not detected	590		ug/kg	20	85-68-7	X
4-Chloroaniline	Not detected	590		ug/kg	20	106-47-8	X
2-Chloronaphthalene	Not detected	590		ug/kg	20	91-58-7	XS
4-Chloro-3-methylphenol	Not detected	590		ug/kg	20	59-50-7	X
2-Chlorophenol	Not detected	590		ug/kg	20	95-57-8	XS
4-Chlorophenyl phenyl ether	Not detected	590		ug/kg	20	7005-72-3	XS
Chrysene	1,610	590		ug/kg	20	218-01-9	X
3-, 4-Methylphenol (p,m-Cresol)	Not detected	590		ug/kg	20	3/4-CRESOL	XS
2-Methylphenol (o-Cresol)	Not detected	590		ug/kg	20	95-48-7	XS
Dibenzo(ah)anthracene	Not detected	590		ug/kg	20	53-70-3	X
Dibenzofuran	Not detected	590		ug/kg	20	132-64-9	X
di-n-Butyl phthalate	Not detected	590		ug/kg	20	84-74-2	X
1,2-Dichlorobenzene*	Not detected	590		ug/kg	20	95-50-1	XS
1,3-Dichlorobenzene	Not detected	590		ug/kg	20	541-73-1	XS
1,4-Dichlorobenzene	Not detected	590		ug/kg	20	106-46-7	XS
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	20	91-94-1	
2,4-Dichlorophenol	Not detected	590		ug/kg	20	120-83-2	X

X-Elevated reporting limit due to matrix interference S-Surrogate recovery outside of control limits

Lab Sample ID: S09614.06 (continued)
Sample Tag: SB-83/84-45(8-10)_11192019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 04:17, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl phthalate	Not detected	590		ug/kg	20	84-66-2	XS
2,4-Dimethylphenol	Not detected	590		ug/kg	20	105-67-9	X
Dimethyl phthalate	Not detected	590		ug/kg	20	131-11-3	XS
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	20	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	20	51-28-5	S
2,4-Dinitrotoluene	Not detected	590		ug/kg	20	121-14-2	XS
2,6-Dinitrotoluene	Not detected	590		ug/kg	20	606-20-2	XS
1,2-Diphenylhydrazine	Not detected	590		ug/kg	20	122-66-7	X
di-n-Octyl phthalate	Not detected	590		ug/kg	20	117-84-0	X
Fluoranthene	840	590		ug/kg	20	206-44-0	X
Fluorene	Not detected	590		ug/kg	20	86-73-7	XS
Hexachlorobenzene	Not detected	590		ug/kg	20	118-74-1	X
Hexachlorobutadiene	Not detected	590		ug/kg	20	87-68-3	X
Hexachlorocyclopentadiene	Not detected	590		ug/kg	20	77-47-4	XS
Hexachloroethane	Not detected	590		ug/kg	20	67-72-1	XS
Indeno(1,2,3-cd)pyrene	Not detected	590		ug/kg	20	193-39-5	X
Isophorone	Not detected	590		ug/kg	20	78-59-1	X
2-Methylnaphthalene	1,310	590		ug/kg	20	91-57-6	X
Naphthalene	Not detected	590		ug/kg	20	91-20-3	X
2-Nitroaniline	Not detected	830		ug/kg	20	88-74-4	S
3-Nitroaniline	Not detected	830		ug/kg	20	99-09-2	S
4-Nitroaniline	Not detected	830		ug/kg	20	100-01-6	S
Nitrobenzene	Not detected	590		ug/kg	20	98-95-3	X
2-Nitrophenol	Not detected	590		ug/kg	20	88-75-5	X
4-Nitrophenol	Not detected	830		ug/kg	20	100-02-7	S
N-Nitrosodiphenylamine	Not detected	590		ug/kg	20	86-30-6	X
N-Nitrosodi-n-propylamine	Not detected	590		ug/kg	20	621-64-7	XS
Pentachlorophenol	Not detected	590		ug/kg	20	87-86-5	X
Phenanthrene	1,690	590		ug/kg	20	85-01-8	X
Phenol	Not detected	590		ug/kg	20	108-95-2	XS
Pyrene	1,150	590		ug/kg	20	129-00-0	X
1,2,4-Trichlorobenzene	Not detected	590		ug/kg	20	120-82-1	X
2,4,5-Trichlorophenol	Not detected	590		ug/kg	20	95-95-4	XS
2,4,6-Trichlorophenol	Not detected	590		ug/kg	20	88-06-2	XS

Semi-Volatile Organics - MDEQ (Replicate 01), Method: SW8270D, Run Date: 11/27/19 05:55, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	600		ug/kg	20	83-32-9	X
Acenaphthylene	Not detected	600		ug/kg	20	208-96-8	X
Anthracene	Not detected	600		ug/kg	20	120-12-7	X
Benzo(a)anthracene	Not detected	600		ug/kg	20	56-55-3	X
Benzo(b)fluoranthene	Not detected	600		ug/kg	20	205-99-2	X
Benzo(k)fluoranthene	Not detected	600		ug/kg	20	207-08-9	X
Benzo(ghi)perylene	Not detected	600		ug/kg	20	191-24-2	X
Benzo(a)pyrene	Not detected	600		ug/kg	20	50-32-8	X
bis(2-Chloroethoxy)methane	Not detected	600		ug/kg	20	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	600		ug/kg	20	111-44-4	X
bis(2-Chloroisopropyl)ether*	Not detected	600		ug/kg	20	108-60-1	X
bis(2-Ethylhexyl)phthalate	Not detected	600		ug/kg	20	117-81-7	X

X-Elevated reporting limit due to matrix interference S-Surrogate recovery outside of control limits

Lab Sample ID: S09614.06 (continued)
Sample Tag: SB-83/84-45(8-10)_11192019

Semi-Volatile Organics - MDEQ (Replicate 01), Method: SW8270D, Run Date: 11/27/19 05:55, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Bromophenyl phenyl ether	Not detected	600		ug/kg	20	101-55-3	X
Butyl benzyl phthalate	Not detected	600		ug/kg	20	85-68-7	X
4-Chloroaniline	Not detected	600		ug/kg	20	106-47-8	X
2-Chloronaphthalene	Not detected	600		ug/kg	20	91-58-7	X
4-Chloro-3-methylphenol	Not detected	600		ug/kg	20	59-50-7	X
2-Chlorophenol	Not detected	600		ug/kg	20	95-57-8	X
4-Chlorophenyl phenyl ether	Not detected	600		ug/kg	20	7005-72-3	X
Chrysene	1,490	600		ug/kg	20	218-01-9	X
3-, 4-Methylphenol (p,m-Cresol)	Not detected	600		ug/kg	20	3/4-CRESOL	X
2-Methylphenol (o-Cresol)	Not detected	600		ug/kg	20	95-48-7	X
Dibenzo(ah)anthracene	Not detected	600		ug/kg	20	53-70-3	X
Dibenzofuran	Not detected	600		ug/kg	20	132-64-9	X
di-n-Butyl phthalate	Not detected	600		ug/kg	20	84-74-2	X
1,2-Dichlorobenzene*	Not detected	600		ug/kg	20	95-50-1	X
1,3-Dichlorobenzene	Not detected	600		ug/kg	20	541-73-1	X
1,4-Dichlorobenzene	Not detected	600		ug/kg	20	106-46-7	X
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	20	91-94-1	
2,4-Dichlorophenol	Not detected	600		ug/kg	20	120-83-2	X
Diethyl phthalate	Not detected	600		ug/kg	20	84-66-2	X
2,4-Dimethylphenol	Not detected	600		ug/kg	20	105-67-9	X
Dimethyl phthalate	Not detected	600		ug/kg	20	131-11-3	X
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	20	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	20	51-28-5	
2,4-Dinitrotoluene	Not detected	600		ug/kg	20	121-14-2	X
2,6-Dinitrotoluene	Not detected	600		ug/kg	20	606-20-2	X
1,2-Diphenylhydrazine	Not detected	600		ug/kg	20	122-66-7	X
di-n-Octyl phthalate	Not detected	600		ug/kg	20	117-84-0	X
Fluoranthene	660	600		ug/kg	20	206-44-0	X
Fluorene	Not detected	600		ug/kg	20	86-73-7	X
Hexachlorobenzene	Not detected	600		ug/kg	20	118-74-1	X
Hexachlorobutadiene	Not detected	600		ug/kg	20	87-68-3	X
Hexachlorocyclopentadiene	Not detected	600		ug/kg	20	77-47-4	X
Hexachloroethane	Not detected	600		ug/kg	20	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	600		ug/kg	20	193-39-5	X
Isophorone	Not detected	600		ug/kg	20	78-59-1	X
2-Methylnaphthalene	710	600		ug/kg	20	91-57-6	X
Naphthalene	Not detected	600		ug/kg	20	91-20-3	X
2-Nitroaniline	Not detected	830		ug/kg	20	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	20	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	20	100-01-6	
Nitrobenzene	Not detected	600		ug/kg	20	98-95-3	X
2-Nitrophenol	Not detected	600		ug/kg	20	88-75-5	X
4-Nitrophenol	Not detected	830		ug/kg	20	100-02-7	
N-Nitrosodiphenylamine	Not detected	600		ug/kg	20	86-30-6	X
N-Nitrosodi-n-propylamine	Not detected	600		ug/kg	20	621-64-7	X
Pentachlorophenol	Not detected	600		ug/kg	20	87-86-5	X
Phenanthrene	1,090	600		ug/kg	20	85-01-8	X
Phenol	Not detected	600		ug/kg	20	108-95-2	X
Pyrene	880	600		ug/kg	20	129-00-0	X

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S09614.06 (continued)

Sample Tag: SB-83/84-45(8-10)_11192019

Semi-Volatile Organics - MDEQ (Replicate 01), Method: SW8270D, Run Date: 11/27/19 05:55, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,4-Trichlorobenzene	Not detected	600		ug/kg	20	120-82-1	X
2,4,5-Trichlorophenol	Not detected	600		ug/kg	20	95-95-4	X
2,4,6-Trichlorophenol	Not detected	600		ug/kg	20	88-06-2	X

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S09614.07
Sample Tag: SB-81-32(3.5)_11192019
Collected Date/Time: 11/19/2019 14:20
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 18:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.08
Sample Tag: SB-81-32(3.5-5)_11192019
Collected Date/Time: 11/19/2019 14:40
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 19:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.09
Sample Tag: SB-03-03-03(3-5)_11192019
Collected Date/Time: 11/19/2019 13:55
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 19:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.10

Sample Tag: SB-03-03-03(8-10)_11192019

Collected Date/Time: 11/19/2019 14:05

Matrix: Soil

COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Lab Sample ID: S09614.11
Sample Tag: SB-03-07(4-5)_11192019
Collected Date/Time: 11/19/2019 13:38
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 04:48, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330		ug/kg	7.5	83-32-9	
Acenaphthylene	Not detected	330		ug/kg	7.5	208-96-8	
Anthracene	Not detected	330		ug/kg	7.5	120-12-7	
Benzo(a)anthracene	4,920	330		ug/kg	7.5	56-55-3	
Benzo(b)fluoranthene	8,500	330		ug/kg	7.5	205-99-2	
Benzo(k)fluoranthene	6,550	330		ug/kg	7.5	207-08-9	
Benzo(ghi)perylene	6,200	330		ug/kg	7.5	191-24-2	
Benzo(a)pyrene	6,670	330		ug/kg	7.5	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	330		ug/kg	7.5	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330		ug/kg	7.5	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330		ug/kg	7.5	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	330		ug/kg	7.5	117-81-7	
4-Bromophenyl phenyl ether	Not detected	330		ug/kg	7.5	101-55-3	
Butyl benzyl phthalate	Not detected	330		ug/kg	7.5	85-68-7	
4-Chloroaniline	Not detected	330		ug/kg	7.5	106-47-8	
2-Chloronaphthalene	Not detected	330		ug/kg	7.5	91-58-7	
4-Chloro-3-methylphenol	Not detected	280		ug/kg	7.5	59-50-7	
2-Chlorophenol	Not detected	330		ug/kg	7.5	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	330		ug/kg	7.5	7005-72-3	
Chrysene	7,170	330		ug/kg	7.5	218-01-9	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330		ug/kg	7.5	3/4-CRESOL	
2-Methylphenol (o-Cresol)	Not detected	330		ug/kg	7.5	95-48-7	
Dibenzo(ah)anthracene	1,360	330		ug/kg	7.5	53-70-3	
Dibenzofuran	Not detected	330		ug/kg	7.5	132-64-9	
di-n-Butyl phthalate	Not detected	330		ug/kg	7.5	84-74-2	
1,2-Dichlorobenzene*	Not detected	330		ug/kg	7.5	95-50-1	
1,3-Dichlorobenzene	Not detected	330		ug/kg	7.5	541-73-1	
1,4-Dichlorobenzene	Not detected	330		ug/kg	7.5	106-46-7	
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	7.5	91-94-1	
2,4-Dichlorophenol	Not detected	330		ug/kg	7.5	120-83-2	
Diethyl phthalate	Not detected	330		ug/kg	7.5	84-66-2	
2,4-Dimethylphenol	Not detected	330		ug/kg	7.5	105-67-9	

Lab Sample ID: S09614.11 (continued)
Sample Tag: SB-03-07(4-5)_11192019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 04:48, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dimethyl phthalate	Not detected	330		ug/kg	7.5	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	7.5	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	7.5	51-28-5	
2,4-Dinitrotoluene	Not detected	330		ug/kg	7.5	121-14-2	
2,6-Dinitrotoluene	Not detected	330		ug/kg	7.5	606-20-2	
1,2-Diphenylhydrazine	Not detected	330		ug/kg	7.5	122-66-7	
di-n-Octyl phthalate	Not detected	330		ug/kg	7.5	117-84-0	
Fluoranthene	4,300	330		ug/kg	7.5	206-44-0	
Fluorene	Not detected	330		ug/kg	7.5	86-73-7	
Hexachlorobenzene	Not detected	330		ug/kg	7.5	118-74-1	
Hexachlorobutadiene	Not detected	330		ug/kg	7.5	87-68-3	
Hexachlorocyclopentadiene	Not detected	330		ug/kg	7.5	77-47-4	
Hexachloroethane	Not detected	330		ug/kg	7.5	67-72-1	
Indeno(1,2,3-cd)pyrene	4,530	330		ug/kg	7.5	193-39-5	
Isophorone	Not detected	330		ug/kg	7.5	78-59-1	
2-Methylnaphthalene	Not detected	330		ug/kg	7.5	91-57-6	
Naphthalene	Not detected	330		ug/kg	7.5	91-20-3	
2-Nitroaniline	Not detected	830		ug/kg	7.5	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	7.5	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	7.5	100-01-6	
Nitrobenzene	Not detected	330		ug/kg	7.5	98-95-3	
2-Nitrophenol	Not detected	330		ug/kg	7.5	88-75-5	
4-Nitrophenol	Not detected	830		ug/kg	7.5	100-02-7	
N-Nitrosodiphenylamine	Not detected	330		ug/kg	7.5	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	330		ug/kg	7.5	621-64-7	
Pentachlorophenol	Not detected	330		ug/kg	7.5	87-86-5	
Phenanthrene	1,110	330		ug/kg	7.5	85-01-8	
Phenol	Not detected	330		ug/kg	7.5	108-95-2	
Pyrene	4,460	330		ug/kg	7.5	129-00-0	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	7.5	120-82-1	
2,4,5-Trichlorophenol	Not detected	330		ug/kg	7.5	95-95-4	
2,4,6-Trichlorophenol	Not detected	330		ug/kg	7.5	88-06-2	

Lab Sample ID: S09614.12
Sample Tag: SB-03-07(8-10)_11192019
Collected Date/Time: 11/19/2019 13:48
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 06:21, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330		ug/kg	7.5	83-32-9	
Acenaphthylene	Not detected	330		ug/kg	7.5	208-96-8	
Anthracene	740	330		ug/kg	7.5	120-12-7	
Benzo(a)anthracene	4,620	330		ug/kg	7.5	56-55-3	
Benzo(b)fluoranthene	7,950	330		ug/kg	7.5	205-99-2	
Benzo(k)fluoranthene	6,430	330		ug/kg	7.5	207-08-9	
Benzo(ghi)perylene	3,370	330		ug/kg	7.5	191-24-2	
Benzo(a)pyrene	6,350	330		ug/kg	7.5	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	330		ug/kg	7.5	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330		ug/kg	7.5	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330		ug/kg	7.5	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	330		ug/kg	7.5	117-81-7	
4-Bromophenyl phenyl ether	Not detected	330		ug/kg	7.5	101-55-3	
Butyl benzyl phthalate	Not detected	330		ug/kg	7.5	85-68-7	
4-Chloroaniline	Not detected	330		ug/kg	7.5	106-47-8	
2-Chloronaphthalene	Not detected	330		ug/kg	7.5	91-58-7	
4-Chloro-3-methylphenol	Not detected	280		ug/kg	7.5	59-50-7	
2-Chlorophenol	Not detected	330		ug/kg	7.5	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	330		ug/kg	7.5	7005-72-3	
Chrysene	6,180	330		ug/kg	7.5	218-01-9	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330		ug/kg	7.5	3/4-CRESOL	
2-Methylphenol (o-Cresol)	Not detected	330		ug/kg	7.5	95-48-7	
Dibenzo(ah)anthracene	980	330		ug/kg	7.5	53-70-3	
Dibenzofuran	Not detected	330		ug/kg	7.5	132-64-9	
di-n-Butyl phthalate	Not detected	330		ug/kg	7.5	84-74-2	
1,2-Dichlorobenzene*	Not detected	330		ug/kg	7.5	95-50-1	
1,3-Dichlorobenzene	Not detected	330		ug/kg	7.5	541-73-1	
1,4-Dichlorobenzene	Not detected	330		ug/kg	7.5	106-46-7	
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	7.5	91-94-1	
2,4-Dichlorophenol	Not detected	330		ug/kg	7.5	120-83-2	
Diethyl phthalate	Not detected	330		ug/kg	7.5	84-66-2	
2,4-Dimethylphenol	Not detected	330		ug/kg	7.5	105-67-9	

Lab Sample ID: S09614.12 (continued)
Sample Tag: SB-03-07(8-10)_11192019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 06:21, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dimethyl phthalate	Not detected	330		ug/kg	7.5	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	7.5	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	7.5	51-28-5	
2,4-Dinitrotoluene	Not detected	330		ug/kg	7.5	121-14-2	
2,6-Dinitrotoluene	Not detected	330		ug/kg	7.5	606-20-2	
1,2-Diphenylhydrazine	430	330		ug/kg	7.5	122-66-7	
di-n-Octyl phthalate	Not detected	330		ug/kg	7.5	117-84-0	
Fluoranthene	5,630	330		ug/kg	7.5	206-44-0	
Fluorene	380	330		ug/kg	7.5	86-73-7	
Hexachlorobenzene	Not detected	330		ug/kg	7.5	118-74-1	
Hexachlorobutadiene	Not detected	330		ug/kg	7.5	87-68-3	
Hexachlorocyclopentadiene	Not detected	330		ug/kg	7.5	77-47-4	
Hexachloroethane	Not detected	330		ug/kg	7.5	67-72-1	
Indeno(1,2,3-cd)pyrene	3,360	330		ug/kg	7.5	193-39-5	
Isophorone	Not detected	330		ug/kg	7.5	78-59-1	
2-Methylnaphthalene	Not detected	330		ug/kg	7.5	91-57-6	
Naphthalene	Not detected	330		ug/kg	7.5	91-20-3	
2-Nitroaniline	Not detected	830		ug/kg	7.5	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	7.5	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	7.5	100-01-6	
Nitrobenzene	Not detected	330		ug/kg	7.5	98-95-3	
2-Nitrophenol	Not detected	330		ug/kg	7.5	88-75-5	
4-Nitrophenol	Not detected	830		ug/kg	7.5	100-02-7	
N-Nitrosodiphenylamine	Not detected	330		ug/kg	7.5	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	330		ug/kg	7.5	621-64-7	
Pentachlorophenol	Not detected	330		ug/kg	7.5	87-86-5	
Phenanthrene	3,620	330		ug/kg	7.5	85-01-8	
Phenol	Not detected	330		ug/kg	7.5	108-95-2	
Pyrene	5,450	330		ug/kg	7.5	129-00-0	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	7.5	120-82-1	
2,4,5-Trichlorophenol	Not detected	330		ug/kg	7.5	95-95-4	
2,4,6-Trichlorophenol	Not detected	330		ug/kg	7.5	88-06-2	

Lab Sample ID: S09614.13
Sample Tag: SB-03-09(2-3)_11192019
Collected Date/Time: 11/19/2019 13:15
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 06:53, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	420	330		ug/kg	7.5	83-32-9	
Acenaphthylene	Not detected	330		ug/kg	7.5	208-96-8	
Anthracene	1,290	330		ug/kg	7.5	120-12-7	
Benzo(a)anthracene	10,420	330		ug/kg	7.5	56-55-3	
Benzo(b)fluoranthene	17,580	330		ug/kg	7.5	205-99-2	
Benzo(k)fluoranthene	12,190	330		ug/kg	7.5	207-08-9	
Benzo(ghi)perylene	8,250	330		ug/kg	7.5	191-24-2	
Benzo(a)pyrene	13,530	330		ug/kg	7.5	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	330		ug/kg	7.5	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330		ug/kg	7.5	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330		ug/kg	7.5	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	330		ug/kg	7.5	117-81-7	
4-Bromophenyl phenyl ether	Not detected	330		ug/kg	7.5	101-55-3	
Butyl benzyl phthalate	Not detected	330		ug/kg	7.5	85-68-7	
4-Chloroaniline	Not detected	330		ug/kg	7.5	106-47-8	
2-Chloronaphthalene	Not detected	330		ug/kg	7.5	91-58-7	
4-Chloro-3-methylphenol	Not detected	280		ug/kg	7.5	59-50-7	
2-Chlorophenol	Not detected	330		ug/kg	7.5	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	330		ug/kg	7.5	7005-72-3	
Chrysene	13,790	330		ug/kg	7.5	218-01-9	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330		ug/kg	7.5	3/4-CRESOL	
2-Methylphenol (o-Cresol)	Not detected	330		ug/kg	7.5	95-48-7	
Dibenzo(ah)anthracene	1,930	330		ug/kg	7.5	53-70-3	
Dibenzofuran	Not detected	330		ug/kg	7.5	132-64-9	
di-n-Butyl phthalate	Not detected	330		ug/kg	7.5	84-74-2	
1,2-Dichlorobenzene*	Not detected	330		ug/kg	7.5	95-50-1	
1,3-Dichlorobenzene	Not detected	330		ug/kg	7.5	541-73-1	
1,4-Dichlorobenzene	Not detected	330		ug/kg	7.5	106-46-7	
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	7.5	91-94-1	
2,4-Dichlorophenol	Not detected	330		ug/kg	7.5	120-83-2	
Diethyl phthalate	Not detected	330		ug/kg	7.5	84-66-2	
2,4-Dimethylphenol	Not detected	330		ug/kg	7.5	105-67-9	

Lab Sample ID: S09614.13 (continued)
Sample Tag: SB-03-09(2-3)_11192019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 06:53, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dimethyl phthalate	Not detected	330		ug/kg	7.5	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	7.5	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	7.5	51-28-5	
2,4-Dinitrotoluene	Not detected	330		ug/kg	7.5	121-14-2	
2,6-Dinitrotoluene	Not detected	330		ug/kg	7.5	606-20-2	
1,2-Diphenylhydrazine	Not detected	330		ug/kg	7.5	122-66-7	
di-n-Octyl phthalate	Not detected	330		ug/kg	7.5	117-84-0	
Fluoranthene	15,700	330		ug/kg	7.5	206-44-0	
Fluorene	380	330		ug/kg	7.5	86-73-7	
Hexachlorobenzene	Not detected	330		ug/kg	7.5	118-74-1	
Hexachlorobutadiene	Not detected	330		ug/kg	7.5	87-68-3	
Hexachlorocyclopentadiene	Not detected	330		ug/kg	7.5	77-47-4	
Hexachloroethane	Not detected	330		ug/kg	7.5	67-72-1	
Indeno(1,2,3-cd)pyrene	7,110	330		ug/kg	7.5	193-39-5	
Isophorone	Not detected	330		ug/kg	7.5	78-59-1	
2-Methylnaphthalene	Not detected	330		ug/kg	7.5	91-57-6	
Naphthalene	Not detected	330		ug/kg	7.5	91-20-3	
2-Nitroaniline	Not detected	830		ug/kg	7.5	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	7.5	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	7.5	100-01-6	
Nitrobenzene	Not detected	330		ug/kg	7.5	98-95-3	
2-Nitrophenol	Not detected	330		ug/kg	7.5	88-75-5	
4-Nitrophenol	Not detected	830		ug/kg	7.5	100-02-7	
N-Nitrosodiphenylamine	Not detected	330		ug/kg	7.5	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	330		ug/kg	7.5	621-64-7	
Pentachlorophenol	Not detected	330		ug/kg	7.5	87-86-5	
Phenanthrene	6,410	330		ug/kg	7.5	85-01-8	
Phenol	Not detected	330		ug/kg	7.5	108-95-2	
Pyrene	14,300	330		ug/kg	7.5	129-00-0	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	7.5	120-82-1	
2,4,5-Trichlorophenol	Not detected	330		ug/kg	7.5	95-95-4	
2,4,6-Trichlorophenol	Not detected	330		ug/kg	7.5	88-06-2	

Lab Sample ID: S09614.14
Sample Tag: SB-03-09(8-10)_11192019
Collected Date/Time: 11/19/2019 13:20
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 03:15, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330		ug/kg	7.5	83-32-9	
Acenaphthylene	Not detected	330		ug/kg	7.5	208-96-8	
Anthracene	Not detected	330		ug/kg	7.5	120-12-7	
Benzo(a)anthracene	Not detected	330		ug/kg	7.5	56-55-3	
Benzo(b)fluoranthene	Not detected	330		ug/kg	7.5	205-99-2	
Benzo(k)fluoranthene	Not detected	330		ug/kg	7.5	207-08-9	
Benzo(ghi)perylene	Not detected	330		ug/kg	7.5	191-24-2	
Benzo(a)pyrene	Not detected	330		ug/kg	7.5	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	330		ug/kg	7.5	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330		ug/kg	7.5	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330		ug/kg	7.5	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	330		ug/kg	7.5	117-81-7	
4-Bromophenyl phenyl ether	Not detected	330		ug/kg	7.5	101-55-3	
Butyl benzyl phthalate	Not detected	330		ug/kg	7.5	85-68-7	
4-Chloroaniline	Not detected	330		ug/kg	7.5	106-47-8	
2-Chloronaphthalene	Not detected	330		ug/kg	7.5	91-58-7	
4-Chloro-3-methylphenol	Not detected	280		ug/kg	7.5	59-50-7	
2-Chlorophenol	Not detected	330		ug/kg	7.5	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	330		ug/kg	7.5	7005-72-3	
Chrysene	Not detected	330		ug/kg	7.5	218-01-9	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330		ug/kg	7.5	3/4-CRESOL	
2-Methylphenol (o-Cresol)	Not detected	330		ug/kg	7.5	95-48-7	
Dibenzo(ah)anthracene	Not detected	330		ug/kg	7.5	53-70-3	
Dibenzofuran	Not detected	330		ug/kg	7.5	132-64-9	
di-n-Butyl phthalate	Not detected	330		ug/kg	7.5	84-74-2	
1,2-Dichlorobenzene*	Not detected	330		ug/kg	7.5	95-50-1	
1,3-Dichlorobenzene	Not detected	330		ug/kg	7.5	541-73-1	
1,4-Dichlorobenzene	Not detected	330		ug/kg	7.5	106-46-7	
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	7.5	91-94-1	
2,4-Dichlorophenol	Not detected	330		ug/kg	7.5	120-83-2	
Diethyl phthalate	Not detected	330		ug/kg	7.5	84-66-2	
2,4-Dimethylphenol	Not detected	330		ug/kg	7.5	105-67-9	

Lab Sample ID: S09614.14 (continued)
Sample Tag: SB-03-09(8-10)_11192019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 03:15, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dimethyl phthalate	Not detected	330		ug/kg	7.5	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	7.5	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	7.5	51-28-5	
2,4-Dinitrotoluene	Not detected	330		ug/kg	7.5	121-14-2	
2,6-Dinitrotoluene	Not detected	330		ug/kg	7.5	606-20-2	
1,2-Diphenylhydrazine	Not detected	330		ug/kg	7.5	122-66-7	
di-n-Octyl phthalate	Not detected	330		ug/kg	7.5	117-84-0	
Fluoranthene	Not detected	330		ug/kg	7.5	206-44-0	
Fluorene	Not detected	330		ug/kg	7.5	86-73-7	
Hexachlorobenzene	Not detected	330		ug/kg	7.5	118-74-1	
Hexachlorobutadiene	Not detected	330		ug/kg	7.5	87-68-3	
Hexachlorocyclopentadiene	Not detected	330		ug/kg	7.5	77-47-4	
Hexachloroethane	Not detected	330		ug/kg	7.5	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	330		ug/kg	7.5	193-39-5	
Isophorone	Not detected	330		ug/kg	7.5	78-59-1	
2-Methylnaphthalene	Not detected	330		ug/kg	7.5	91-57-6	
Naphthalene	Not detected	330		ug/kg	7.5	91-20-3	
2-Nitroaniline	Not detected	830		ug/kg	7.5	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	7.5	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	7.5	100-01-6	
Nitrobenzene	Not detected	330		ug/kg	7.5	98-95-3	
2-Nitrophenol	Not detected	330		ug/kg	7.5	88-75-5	
4-Nitrophenol	Not detected	830		ug/kg	7.5	100-02-7	
N-Nitrosodiphenylamine	Not detected	330		ug/kg	7.5	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	330		ug/kg	7.5	621-64-7	
Pentachlorophenol	Not detected	330		ug/kg	7.5	87-86-5	
Phenanthrene	Not detected	330		ug/kg	7.5	85-01-8	
Phenol	Not detected	330		ug/kg	7.5	108-95-2	
Pyrene	Not detected	330		ug/kg	7.5	129-00-0	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	7.5	120-82-1	
2,4,5-Trichlorophenol	Not detected	330		ug/kg	7.5	95-95-4	
2,4,6-Trichlorophenol	Not detected	330		ug/kg	7.5	88-06-2	

Lab Sample ID: S09614.15
Sample Tag: SB-03-08(1-3)_11192019
Collected Date/Time: 11/19/2019 12:55
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	94	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 19:24, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 07:23, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330		ug/kg	7.5	83-32-9	
Acenaphthylene	Not detected	330		ug/kg	7.5	208-96-8	
Anthracene	Not detected	330		ug/kg	7.5	120-12-7	
Benzo(a)anthracene	570	330		ug/kg	7.5	56-55-3	
Benzo(b)fluoranthene	900	330		ug/kg	7.5	205-99-2	
Benzo(k)fluoranthene	740	330		ug/kg	7.5	207-08-9	
Benzo(ghi)perylene	640	330		ug/kg	7.5	191-24-2	
Benzo(a)pyrene	710	330		ug/kg	7.5	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	330		ug/kg	7.5	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330		ug/kg	7.5	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330		ug/kg	7.5	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	330		ug/kg	7.5	117-81-7	
4-Bromophenyl phenyl ether	Not detected	330		ug/kg	7.5	101-55-3	
Butyl benzyl phthalate	Not detected	330		ug/kg	7.5	85-68-7	
4-Chloroaniline	Not detected	330		ug/kg	7.5	106-47-8	
2-Chloronaphthalene	Not detected	330		ug/kg	7.5	91-58-7	
4-Chloro-3-methylphenol	Not detected	280		ug/kg	7.5	59-50-7	
2-Chlorophenol	Not detected	330		ug/kg	7.5	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	330		ug/kg	7.5	7005-72-3	
Chrysene	780	330		ug/kg	7.5	218-01-9	

Lab Sample ID: S09614.15 (continued)
Sample Tag: SB-03-08(1-3)_11192019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 07:23, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330		ug/kg	7.5	3/4-CRESOL	
2-Methylphenol (o-Cresol)	Not detected	330		ug/kg	7.5	95-48-7	
Dibenzo(ah)anthracene	Not detected	330		ug/kg	7.5	53-70-3	
Dibenzofuran	340	330		ug/kg	7.5	132-64-9	
di-n-Butyl phthalate	Not detected	330		ug/kg	7.5	84-74-2	
1,2-Dichlorobenzene*	Not detected	330		ug/kg	7.5	95-50-1	
1,3-Dichlorobenzene	Not detected	330		ug/kg	7.5	541-73-1	
1,4-Dichlorobenzene	Not detected	330		ug/kg	7.5	106-46-7	
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	7.5	91-94-1	
2,4-Dichlorophenol	Not detected	330		ug/kg	7.5	120-83-2	
Diethyl phthalate	Not detected	330		ug/kg	7.5	84-66-2	
2,4-Dimethylphenol	Not detected	330		ug/kg	7.5	105-67-9	
Dimethyl phthalate	Not detected	330		ug/kg	7.5	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	7.5	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	7.5	51-28-5	
2,4-Dinitrotoluene	Not detected	330		ug/kg	7.5	121-14-2	
2,6-Dinitrotoluene	Not detected	330		ug/kg	7.5	606-20-2	
1,2-Diphenylhydrazine	Not detected	330		ug/kg	7.5	122-66-7	
di-n-Octyl phthalate	Not detected	330		ug/kg	7.5	117-84-0	
Fluoranthene	1,070	330		ug/kg	7.5	206-44-0	
Fluorene	Not detected	330		ug/kg	7.5	86-73-7	
Hexachlorobenzene	Not detected	330		ug/kg	7.5	118-74-1	
Hexachlorobutadiene	Not detected	330		ug/kg	7.5	87-68-3	
Hexachlorocyclopentadiene	Not detected	330		ug/kg	7.5	77-47-4	
Hexachloroethane	Not detected	330		ug/kg	7.5	67-72-1	
Indeno(1,2,3-cd)pyrene	420	330		ug/kg	7.5	193-39-5	
Isophorone	Not detected	330		ug/kg	7.5	78-59-1	
2-Methylnaphthalene	540	330		ug/kg	7.5	91-57-6	
Naphthalene	1,160	330		ug/kg	7.5	91-20-3	
2-Nitroaniline	Not detected	830		ug/kg	7.5	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	7.5	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	7.5	100-01-6	
Nitrobenzene	Not detected	330		ug/kg	7.5	98-95-3	
2-Nitrophenol	Not detected	330		ug/kg	7.5	88-75-5	
4-Nitrophenol	Not detected	830		ug/kg	7.5	100-02-7	
N-Nitrosodiphenylamine	Not detected	330		ug/kg	7.5	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	330		ug/kg	7.5	621-64-7	
Pentachlorophenol	Not detected	330		ug/kg	7.5	87-86-5	
Phenanthrene	930	330		ug/kg	7.5	85-01-8	
Phenol	Not detected	330		ug/kg	7.5	108-95-2	
Pyrene	1,210	330		ug/kg	7.5	129-00-0	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	7.5	120-82-1	
2,4,5-Trichlorophenol	Not detected	330		ug/kg	7.5	95-95-4	
2,4,6-Trichlorophenol	Not detected	330		ug/kg	7.5	88-06-2	

Lab Sample ID: S09614.16
Sample Tag: SB-03-08(8-10)_11192019
Collected Date/Time: 11/19/2019 13:10
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 19:36, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 07:54, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330		ug/kg	7.5	83-32-9	
Acenaphthylene	Not detected	330		ug/kg	7.5	208-96-8	
Anthracene	Not detected	330		ug/kg	7.5	120-12-7	
Benzo(a)anthracene	4,030	330		ug/kg	7.5	56-55-3	
Benzo(b)fluoranthene	8,880	330		ug/kg	7.5	205-99-2	
Benzo(k)fluoranthene	6,040	330		ug/kg	7.5	207-08-9	
Benzo(ghi)perylene	4,110	330		ug/kg	7.5	191-24-2	
Benzo(a)pyrene	4,640	330		ug/kg	7.5	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	330		ug/kg	7.5	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330		ug/kg	7.5	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330		ug/kg	7.5	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	330		ug/kg	7.5	117-81-7	
4-Bromophenyl phenyl ether	Not detected	330		ug/kg	7.5	101-55-3	
Butyl benzyl phthalate	Not detected	330		ug/kg	7.5	85-68-7	
4-Chloroaniline	Not detected	330		ug/kg	7.5	106-47-8	
2-Chloronaphthalene	Not detected	330		ug/kg	7.5	91-58-7	
4-Chloro-3-methylphenol	Not detected	280		ug/kg	7.5	59-50-7	
2-Chlorophenol	Not detected	330		ug/kg	7.5	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	330		ug/kg	7.5	7005-72-3	
Chrysene	7,010	330		ug/kg	7.5	218-01-9	

Lab Sample ID: S09614.16 (continued)
Sample Tag: SB-03-08(8-10)_11192019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 07:54, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330		ug/kg	7.5	3/4-CRESOL	
2-Methylphenol (o-Cresol)	Not detected	330		ug/kg	7.5	95-48-7	
Dibenzo(ah)anthracene	1,000	330		ug/kg	7.5	53-70-3	
Dibenzofuran	Not detected	330		ug/kg	7.5	132-64-9	
di-n-Butyl phthalate	Not detected	330		ug/kg	7.5	84-74-2	
1,2-Dichlorobenzene*	Not detected	330		ug/kg	7.5	95-50-1	
1,3-Dichlorobenzene	Not detected	330		ug/kg	7.5	541-73-1	
1,4-Dichlorobenzene	Not detected	330		ug/kg	7.5	106-46-7	
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	7.5	91-94-1	
2,4-Dichlorophenol	Not detected	330		ug/kg	7.5	120-83-2	
Diethyl phthalate	Not detected	330		ug/kg	7.5	84-66-2	
2,4-Dimethylphenol	Not detected	330		ug/kg	7.5	105-67-9	
Dimethyl phthalate	Not detected	330		ug/kg	7.5	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	7.5	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	7.5	51-28-5	
2,4-Dinitrotoluene	Not detected	330		ug/kg	7.5	121-14-2	
2,6-Dinitrotoluene	Not detected	330		ug/kg	7.5	606-20-2	
1,2-Diphenylhydrazine	Not detected	330		ug/kg	7.5	122-66-7	
di-n-Octyl phthalate	Not detected	330		ug/kg	7.5	117-84-0	
Fluoranthene	4,610	330		ug/kg	7.5	206-44-0	
Fluorene	Not detected	330		ug/kg	7.5	86-73-7	
Hexachlorobenzene	Not detected	330		ug/kg	7.5	118-74-1	
Hexachlorobutadiene	Not detected	330		ug/kg	7.5	87-68-3	
Hexachlorocyclopentadiene	Not detected	330		ug/kg	7.5	77-47-4	
Hexachloroethane	Not detected	330		ug/kg	7.5	67-72-1	
Indeno(1,2,3-cd)pyrene	3,510	330		ug/kg	7.5	193-39-5	
Isophorone	Not detected	330		ug/kg	7.5	78-59-1	
2-Methylnaphthalene	Not detected	330		ug/kg	7.5	91-57-6	
Naphthalene	Not detected	330		ug/kg	7.5	91-20-3	
2-Nitroaniline	Not detected	830		ug/kg	7.5	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	7.5	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	7.5	100-01-6	
Nitrobenzene	Not detected	330		ug/kg	7.5	98-95-3	
2-Nitrophenol	Not detected	330		ug/kg	7.5	88-75-5	
4-Nitrophenol	Not detected	830		ug/kg	7.5	100-02-7	
N-Nitrosodiphenylamine	Not detected	330		ug/kg	7.5	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	330		ug/kg	7.5	621-64-7	
Pentachlorophenol	Not detected	330		ug/kg	7.5	87-86-5	
Phenanthrene	1,370	330		ug/kg	7.5	85-01-8	
Phenol	Not detected	330		ug/kg	7.5	108-95-2	
Pyrene	4,080	330		ug/kg	7.5	129-00-0	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	7.5	120-82-1	
2,4,5-Trichlorophenol	Not detected	330		ug/kg	7.5	95-95-4	
2,4,6-Trichlorophenol	Not detected	330		ug/kg	7.5	88-06-2	

Lab Sample ID: S09614.17
Sample Tag: SB-81-33(2-4)_11192019
Collected Date/Time: 11/19/2019 09:48
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 17:37, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.18
Sample Tag: SB-81-33(4-6)_11192019
Collected Date/Time: 11/19/2019 09:58
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 17:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	500	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.19
Sample Tag: SB-81-28(7-9)_11192019
Collected Date/Time: 11/19/2019 09:10
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 19:48, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.20
Sample Tag: TW-43-165-7R(1-3)_11202019
Collected Date/Time: 11/20/2019 09:25
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 18:01, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	900	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S09614.21
Sample Tag: SB-40-21(0-2)_11202019
Collected Date/Time: 11/20/2019 10:08
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 20:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.22
Sample Tag: SB-40-22(0-2)_11202019
Collected Date/Time: 11/20/2019 11:15
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 20:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.23
Sample Tag: SB-40-22(2-4)_11202019
Collected Date/Time: 11/20/2019 11:20
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 18:13, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.24
Sample Tag: SB-40-22(4-6)_11202019
Collected Date/Time: 11/20/2019 11:25
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 18:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.25
Sample Tag: SB-84-16(0-2)_11202019
Collected Date/Time: 11/20/2019 11:58
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 08:25, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	4,530	820		ug/kg	30	83-32-9	X
Acenaphthylene	Not detected	820		ug/kg	30	208-96-8	X
Anthracene	9,440	820		ug/kg	30	120-12-7	X
Benzo(a)anthracene	29,820	820		ug/kg	30	56-55-3	X
Benzo(b)fluoranthene	31,630	820		ug/kg	30	205-99-2	X
Benzo(k)fluoranthene	33,190	820		ug/kg	30	207-08-9	X
Benzo(ghi)perylene	9,440	820		ug/kg	30	191-24-2	X
Benzo(a)pyrene	29,660	820		ug/kg	30	50-32-8	X
bis(2-Chloroethoxy)methane	Not detected	820		ug/kg	30	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	820		ug/kg	30	111-44-4	X
bis(2-Chloroisopropyl)ether*	Not detected	820		ug/kg	30	108-60-1	X
bis(2-Ethylhexyl)phthalate	Not detected	820		ug/kg	30	117-81-7	X
4-Bromophenyl phenyl ether	Not detected	820		ug/kg	30	101-55-3	X
Butyl benzyl phthalate	Not detected	820		ug/kg	30	85-68-7	X
4-Chloroaniline	Not detected	820		ug/kg	30	106-47-8	X
2-Chloronaphthalene	Not detected	820		ug/kg	30	91-58-7	X
4-Chloro-3-methylphenol	Not detected	820		ug/kg	30	59-50-7	X
2-Chlorophenol	Not detected	820		ug/kg	30	95-57-8	X
4-Chlorophenyl phenyl ether	Not detected	820		ug/kg	30	7005-72-3	X
Chrysene	30,390	820		ug/kg	30	218-01-9	X
3-, 4-Methylphenol (p,m-Cresol)	Not detected	820		ug/kg	30	3/4-CRESOL	X
2-Methylphenol (o-Cresol)	Not detected	820		ug/kg	30	95-48-7	X
Dibenzo(ah)anthracene	2,650	820		ug/kg	30	53-70-3	X
Dibenzofuran	1,650	820		ug/kg	30	132-64-9	X
di-n-Butyl phthalate	Not detected	820		ug/kg	30	84-74-2	X
1,2-Dichlorobenzene*	Not detected	820		ug/kg	30	95-50-1	X
1,3-Dichlorobenzene	Not detected	820		ug/kg	30	541-73-1	X
1,4-Dichlorobenzene	Not detected	820		ug/kg	30	106-46-7	X
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	30	91-94-1	
2,4-Dichlorophenol	Not detected	820		ug/kg	30	120-83-2	X
Diethyl phthalate	Not detected	820		ug/kg	30	84-66-2	X

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S09614.25 (continued)
Sample Tag: SB-84-16(0-2)_11202019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 08:25, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,4-Dimethylphenol	Not detected	820		ug/kg	30	105-67-9	X
Dimethyl phthalate	Not detected	820		ug/kg	30	131-11-3	X
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	30	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	30	51-28-5	
2,4-Dinitrotoluene	Not detected	820		ug/kg	30	121-14-2	X
2,6-Dinitrotoluene	Not detected	820		ug/kg	30	606-20-2	X
1,2-Diphenylhydrazine	Not detected	820		ug/kg	30	122-66-7	X
di-n-Octyl phthalate	Not detected	820		ug/kg	30	117-84-0	X
Fluoranthene	67,240	820		ug/kg	30	206-44-0	X
Fluorene	3,610	820		ug/kg	30	86-73-7	X
Hexachlorobenzene	Not detected	820		ug/kg	30	118-74-1	X
Hexachlorobutadiene	Not detected	820		ug/kg	30	87-68-3	X
Hexachlorocyclopentadiene	Not detected	820		ug/kg	30	77-47-4	X
Hexachloroethane	Not detected	820		ug/kg	30	67-72-1	X
Indeno(1,2,3-cd)pyrene	9,790	820		ug/kg	30	193-39-5	X
Isophorone	Not detected	820		ug/kg	30	78-59-1	X
2-Methylnaphthalene	Not detected	820		ug/kg	30	91-57-6	X
Naphthalene	1,090	820		ug/kg	30	91-20-3	X
2-Nitroaniline	Not detected	830		ug/kg	30	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	30	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	30	100-01-6	
Nitrobenzene	Not detected	820		ug/kg	30	98-95-3	X
2-Nitrophenol	Not detected	820		ug/kg	30	88-75-5	X
4-Nitrophenol	Not detected	830		ug/kg	30	100-02-7	
N-Nitrosodiphenylamine	Not detected	820		ug/kg	30	86-30-6	X
N-Nitrosodi-n-propylamine	Not detected	820		ug/kg	30	621-64-7	X
Pentachlorophenol	Not detected	820		ug/kg	30	87-86-5	X
Phenanthrene	38,480	820		ug/kg	30	85-01-8	X
Phenol	Not detected	820		ug/kg	30	108-95-2	X
Pyrene	56,520	820		ug/kg	30	129-00-0	X
1,2,4-Trichlorobenzene	Not detected	820		ug/kg	30	120-82-1	X
2,4,5-Trichlorophenol	Not detected	820		ug/kg	30	95-95-4	X
2,4,6-Trichlorophenol	Not detected	820		ug/kg	30	88-06-2	X

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S09614.26
Sample Tag: SB-84-16(2-4)_11202019
Collected Date/Time: 11/20/2019 12:10
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 03:47, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330		ug/kg	7.5	83-32-9	
Acenaphthylene	Not detected	330		ug/kg	7.5	208-96-8	
Anthracene	Not detected	330		ug/kg	7.5	120-12-7	
Benzo(a)anthracene	Not detected	330		ug/kg	7.5	56-55-3	
Benzo(b)fluoranthene	Not detected	330		ug/kg	7.5	205-99-2	
Benzo(k)fluoranthene	Not detected	330		ug/kg	7.5	207-08-9	
Benzo(ghi)perylene	Not detected	330		ug/kg	7.5	191-24-2	
Benzo(a)pyrene	Not detected	330		ug/kg	7.5	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	330		ug/kg	7.5	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330		ug/kg	7.5	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330		ug/kg	7.5	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	330		ug/kg	7.5	117-81-7	
4-Bromophenyl phenyl ether	Not detected	330		ug/kg	7.5	101-55-3	
Butyl benzyl phthalate	Not detected	330		ug/kg	7.5	85-68-7	
4-Chloroaniline	Not detected	330		ug/kg	7.5	106-47-8	
2-Chloronaphthalene	Not detected	330		ug/kg	7.5	91-58-7	
4-Chloro-3-methylphenol	Not detected	280		ug/kg	7.5	59-50-7	
2-Chlorophenol	Not detected	330		ug/kg	7.5	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	330		ug/kg	7.5	7005-72-3	
Chrysene	Not detected	330		ug/kg	7.5	218-01-9	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330		ug/kg	7.5	3/4-CRESOL	
2-Methylphenol (o-Cresol)	Not detected	330		ug/kg	7.5	95-48-7	
Dibenzo(ah)anthracene	Not detected	330		ug/kg	7.5	53-70-3	
Dibenzofuran	Not detected	330		ug/kg	7.5	132-64-9	
di-n-Butyl phthalate	Not detected	330		ug/kg	7.5	84-74-2	
1,2-Dichlorobenzene*	Not detected	330		ug/kg	7.5	95-50-1	
1,3-Dichlorobenzene	Not detected	330		ug/kg	7.5	541-73-1	
1,4-Dichlorobenzene	Not detected	330		ug/kg	7.5	106-46-7	
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	7.5	91-94-1	
2,4-Dichlorophenol	Not detected	330		ug/kg	7.5	120-83-2	
Diethyl phthalate	Not detected	330		ug/kg	7.5	84-66-2	
2,4-Dimethylphenol	Not detected	330		ug/kg	7.5	105-67-9	

Lab Sample ID: S09614.26 (continued)
Sample Tag: SB-84-16(2-4)_11202019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 03:47, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dimethyl phthalate	Not detected	330		ug/kg	7.5	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	7.5	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	7.5	51-28-5	
2,4-Dinitrotoluene	Not detected	330		ug/kg	7.5	121-14-2	
2,6-Dinitrotoluene	Not detected	330		ug/kg	7.5	606-20-2	
1,2-Diphenylhydrazine	Not detected	330		ug/kg	7.5	122-66-7	
di-n-Octyl phthalate	Not detected	330		ug/kg	7.5	117-84-0	
Fluoranthene	Not detected	330		ug/kg	7.5	206-44-0	
Fluorene	Not detected	330		ug/kg	7.5	86-73-7	
Hexachlorobenzene	Not detected	330		ug/kg	7.5	118-74-1	
Hexachlorobutadiene	Not detected	330		ug/kg	7.5	87-68-3	
Hexachlorocyclopentadiene	Not detected	330		ug/kg	7.5	77-47-4	
Hexachloroethane	Not detected	330		ug/kg	7.5	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	330		ug/kg	7.5	193-39-5	
Isophorone	Not detected	330		ug/kg	7.5	78-59-1	
2-Methylnaphthalene	Not detected	330		ug/kg	7.5	91-57-6	
Naphthalene	Not detected	330		ug/kg	7.5	91-20-3	
2-Nitroaniline	Not detected	830		ug/kg	7.5	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	7.5	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	7.5	100-01-6	
Nitrobenzene	Not detected	330		ug/kg	7.5	98-95-3	
2-Nitrophenol	Not detected	330		ug/kg	7.5	88-75-5	
4-Nitrophenol	Not detected	830		ug/kg	7.5	100-02-7	
N-Nitrosodiphenylamine	Not detected	330		ug/kg	7.5	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	330		ug/kg	7.5	621-64-7	
Pentachlorophenol	Not detected	330		ug/kg	7.5	87-86-5	
Phenanthrene	Not detected	330		ug/kg	7.5	85-01-8	
Phenol	Not detected	330		ug/kg	7.5	108-95-2	
Pyrene	Not detected	330		ug/kg	7.5	129-00-0	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	7.5	120-82-1	
2,4,5-Trichlorophenol	Not detected	330		ug/kg	7.5	95-95-4	
2,4,6-Trichlorophenol	Not detected	330		ug/kg	7.5	88-06-2	

Lab Sample ID: S09614.27
Sample Tag: SB-94-05A(1-3)_11202019
Collected Date/Time: 11/20/2019 14:08
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 10:20	CCM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 12:38, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	15.9	0.30		mg/kg	244	7439-92-1	

Lab Sample ID: S09614.28
Sample Tag: SB-94-06(1-3)_11202019
Collected Date/Time: 11/20/2019 14:15
Matrix: Soil
COC Reference: 114804

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 10:20	CCM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 12:40, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	124	0.30		mg/kg	242	7439-92-1	

Lab Sample ID: S09614.29

Sample Tag: SB-94-07A(1-3)_11202019

Collected Date/Time: 11/20/2019 14:15

Matrix: Soil

COC Reference: 114804

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 10:20	CCM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 12:47, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	587	15.0		mg/kg	11100	7439-92-1	

Lab Sample ID: S09614.30
Sample Tag: SB-94-06(3-5)_11202019
Collected Date/Time: 11/20/2019 14:15
Matrix: Soil
COC Reference: 114804

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 10:20	CCM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 12:36, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	1.52	0.30		mg/kg	247	7439-92-1	

Lab Sample ID: S09614.31
Sample Tag: SB-40-21(4-6)_11202019
Collected Date/Time: 11/20/2019 10:30
Matrix: Soil
COC Reference: 114804

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Lab Sample ID: S09614.32
Sample Tag: SB-40-21(2-4)_11202019
Collected Date/Time: 11/20/2019 10:40
Matrix: Soil
COC Reference: 114804

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Merit Laboratories Login Checklist

Lab Set ID: S09614
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30006800.01904 Buick City
Submitted: 11/22/2019 08:15 Login User: MMC

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 2.4
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[X] Yes	[ ] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[X] No	[ ] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 4

114803

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Erin Kozak, Megan Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Drive Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904 Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	SVOCs	Lead	Special Instructions
09614.01	11-21-19	9:10	EP_94_02AR(as-2.5).11212019	S	1	X							X			
.02	11-21-19	10:00	SB_FEP_20(0-2).11212019												X	5 day TAT
.03	11-21-19	10:10	SB_FEP_20(2-4).11212019												X	5 day TAT
.04	11-21-19	10:15	SB_FEP_20(4-6).11212019												X	5 day TAT

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Amanda Prueks	☐ Sampler	DATE: 11-21-19	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION: Merit Drop Box		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION: Merit Drop Box		DATE: 11/22/19	TIME: 0815
RECEIVED BY: SIGNATURE/ORGANIZATION: M Allcott		DATE: 11/22/19	TIME: 0815

RELINQUISHED BY: SIGNATURE/ORGANIZATION:		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION:		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL: 2.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 2 OF 4

116789

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Erin Kozak, Megan Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr. Suite 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO. | FAX NO. | P.O. NO.
E-MAIL ADDRESS | QUOTE NO.

INVOICE TO

CONTACT NAME | ☐ SAME
COMPANY
ADDRESS
CITY | STATE | ZIP CODE
PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME: 30006800.0904 Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	SVOCs
09614.05	11-19-19	3:28	SB_83/84-45(0-2).11192019	S	1	X								X
.06	11-19-19	3:32	SB_83/84-45(8-10).11192019											X
.07	11-19-19	2:20	SB_81_32(0-2).11192019										X	
.08	11-19-19	2:40	SB_81_32(2-4).11192019										X	
.09	11-19-19	1:55	SB_03-03_03(1-3).11192019										X	
.10	11-19-19	2:05	SB_03_03_03(8-10).11192019										X	
.11	11-19-19	1:38	SB_03_07(1-3).11192019											X
.12	11-19-19	1:48	SB_03_07(8-10).11192019											X
.13	11-19-19	1:15	SB_03_09(1-3).11192019											X
.14	11-19-19	1:20	SB_03_09(8-10).11192019											X
.15	11-19-19	12:55	SB_03_08(1-3).11192019										X	X
.16	11-19-19	1:10	SB_03_08(8-10).11192019										X	X

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Amanda Pruehs ☐ Sampler | DATE: 1-21-19 | TIME: 440
RECEIVED BY: SIGNATURE/ORGANIZATION: Merit Drop Box | DATE | TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION: Merit Drop Box | DATE: 11/22/19 | TIME: 0815
RECEIVED BY: SIGNATURE/ORGANIZATION: M Allcock | DATE: 11/22/19 | TIME: 0815

RELINQUISHED BY: SIGNATURE/ORGANIZATION | DATE | TIME
RECEIVED BY: SIGNATURE/ORGANIZATION | DATE | TIME

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: TEMP. ON ARRIVAL 2.4

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C.O.C. PAGE # 3 OF 4

114809

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Erin Kozak, Megan Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Drive Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904 Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	SVOCs	Lead
	~~11-19-19~~		~~SB-81-33(0-2). 11192019~~	S	1	X							X		
0964.17	11-19-19	9:48	SB-81-33(2-4). 11192019										X		
.18	11-19-19	9:58	SB-81-33(4-6). 11192019										X		
.19	11-19-19	9:10	SB-81-28(7-9). 11192019										X		
.20	11-20-19	9:25	TW-43-165-7R(1-3). 11202019										X		
.21	11-20-19	10:08	SB-40-21(0-2). 11202019										X		
.22	11-20-19	11:15	SB-40-22(0-2). 11202019										X		
.23	11-20-19	11:20	SB-40-22(2-4). 11202019										X		
.24	11-20-19	11:25	SB-40-22(4-6). 11202019										X		
.25	11-20-19	11:58	SB-84-16(0-2). 11202019											X	
.26	11-20-19	12:10	SB-84-16(2-4). 11202019											X	
27	11-20-19	2:08	SB-94-05(1-3). 11202019	↓	↓	↓									X

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Amanda Powers	☐ Sampler	DATE: 11-21-19	TIME: 4:40
RECEIVED BY: SIGNATURE/ORGANIZATION: Merit Drop Box		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION: Merit Drop Box		DATE: 11/22/19	TIME: 0815
RECEIVED BY: SIGNATURE/ORGANIZATION: M Calcott		DATE: 11/22/19	TIME: 0815

RELINQUISHED BY: SIGNATURE/ORGANIZATION:		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION:		DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

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114804

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Erin Kozak, Megan Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Drive Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

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☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	SVOCs	Lead
09614.28	11-20-19	2:15	SB_94-06(1-3).11202019	S	1	X									X
.29	11-20-19	2:15	SB_94-07(1-3).11202019												X
.30	11-20-19	2:15	SB_94-06(3-5).11202019												X
.31	11-20-19	10:30	SB_40-21(4-6).11202019										X		
.32	11-20-19	10:40	SB_40-21(7-9).11202019										X		

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Amanda Powers	☐ Sampler	DATE: 11-21-19	TIME: 4:40
RECEIVED BY: SIGNATURE/ORGANIZATION: Merit Drop Box		DATE:	TIME:
RELINQUISHED BY: SIGNATURE/ORGANIZATION: Merit Drop Box		DATE: 11/22/19	TIME: 0815
RECEIVED BY: SIGNATURE/ORGANIZATION: M Wilcoxon		DATE: 11/22/19	TIME: 0815

RELINQUISHED BY: SIGNATURE/ORGANIZATION:		DATE:	TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION:		DATE:	TIME:

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 2.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Revised Report

Report ID: S09614.01(04)
Generated on 02/19/2021

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki

Report produced by

Merit Laboratories, Inc.
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East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S09614.01-S09614.32
Project: 30006800.01904 Buick City
Collected Date(s): 11/19/2019 - 11/21/2019
Submitted Date/Time: 11/22/2019 08:15
Sampled by: Unknown
P.O. #: 30006800.01904

Table of Contents

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Sample Summary (Page 5)



Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Report Narrative

Samples tags revised per client request.

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8270D	SW 846 Method 8270D Revision 4 February 2007

Sample Summary (32 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S09614.01	EP-94-02AR(0.5-2.5)_11212019	Soil	11/21/19 09:10
S09614.02	SB-FEP-20(0-2)_11212019	Soil	11/21/19 10:00
S09614.03	SB-FEP-20(2-4)_11212019	Soil	11/21/19 10:10
S09614.04	SB-FEP-20(4-6)_11212019	Soil	11/21/19 10:15
S09614.05	SB-83/84-45(0-2)_11192019	Soil	11/19/19 15:28
S09614.06	SB-83/84-45(8-10)_11192019	Soil	11/19/19 15:32
S09614.07	SB-81-32(3.5)_11192019	Soil	11/19/19 14:20
S09614.08	SB-81-32(3.5-5)_11192019	Soil	11/19/19 14:40
S09614.09	SB-03-03-03(3-5)_11192019	Soil	11/19/19 13:55
S09614.10	SB-03-03-03(8-10)_11192019	Soil	11/19/19 14:05
S09614.11	SB-03-07(4-5)_11192019	Soil	11/19/19 13:38
S09614.12	SB-03-07(8-10)_11192019	Soil	11/19/19 13:48
S09614.13	SB-03-09(2-3)_11192019	Soil	11/19/19 13:15
S09614.14	SB-03-09(8-10)_11192019	Soil	11/19/19 13:20
S09614.15	SB-03-08(1-3)_11192019	Soil	11/19/19 12:55
S09614.16	SB-03-08(8-10)_11192019	Soil	11/19/19 13:10
S09614.17	SB-81-33(2-4)_11192019	Soil	11/19/19 09:48
S09614.18	SB-81-33(4-6)_11192019	Soil	11/19/19 09:58
S09614.19	SB-81-28(7-9)_11192019	Soil	11/19/19 09:10
S09614.20	TW-43-165-7R(1-3)_11202019	Soil	11/20/19 09:25
S09614.21	SB-40-21(0-2)_11202019	Soil	11/20/19 10:08
S09614.22	SB-40-22(0-2)_11202019	Soil	11/20/19 11:15
S09614.23	SB-40-22(2-4)_11202019	Soil	11/20/19 11:20
S09614.24	SB-40-22(4-6)_11202019	Soil	11/20/19 11:25
S09614.25	SB-84-66(0-2)_11202019	Soil	11/20/19 11:58
S09614.26	SB-84-66(2-4)_11202019	Soil	11/20/19 12:10
S09614.27	SB-94-05A(1-3)_11202019	Soil	11/20/19 14:08
S09614.28	SB-94-06(1-3)_11202019	Soil	11/20/19 14:15
S09614.29	SB-94-07A(1-3)_11202019	Soil	11/20/19 14:15
S09614.30	SB-94-06(3-5)_11202019	Soil	11/20/19 14:15
S09614.31	SB-40-21(4-6)_11202019	Soil	11/20/19 10:30
S09614.32	SB-40-21(2-4)_11202019	Soil	11/20/19 10:40

Lab Sample ID: S09614.01
Sample Tag: EP-94-02AR(0.5-2.5)_11212019
Collected Date/Time: 11/21/2019 09:10
Matrix: Soil
COC Reference: 114803

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:20, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 18:37, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.02
Sample Tag: SB-FEP-20(0-2)_11212019
Collected Date/Time: 11/21/2019 10:00
Matrix: Soil
COC Reference: 114803

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:20, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Other / Misc.

Method: , Run Date: 11/25/19 14:30, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S09614.03
Sample Tag: SB-FEP-20(2-4)_11212019
Collected Date/Time: 11/21/2019 10:10
Matrix: Soil
COC Reference: 114803

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 12:40	CCM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:20, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 15:22, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	7.82	0.30		mg/kg	220	7439-92-1	

Lab Sample ID: S09614.04
Sample Tag: SB-FEP-20(4-6)_11212019
Collected Date/Time: 11/21/2019 10:15
Matrix: Soil
COC Reference: 114803

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:20, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Other / Misc.

Method: , Run Date: 11/25/19 14:30, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S09614.05
Sample Tag: SB-83/84-45(0-2)_11192019
Collected Date/Time: 11/19/2019 15:28
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 02:45, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330		ug/kg	7.5	83-32-9	
Acenaphthylene	Not detected	330		ug/kg	7.5	208-96-8	
Anthracene	Not detected	330		ug/kg	7.5	120-12-7	
Benzo(a)anthracene	Not detected	330		ug/kg	7.5	56-55-3	
Benzo(b)fluoranthene	Not detected	330		ug/kg	7.5	205-99-2	
Benzo(k)fluoranthene	Not detected	330		ug/kg	7.5	207-08-9	
Benzo(ghi)perylene	Not detected	330		ug/kg	7.5	191-24-2	
Benzo(a)pyrene	Not detected	330		ug/kg	7.5	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	330		ug/kg	7.5	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330		ug/kg	7.5	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330		ug/kg	7.5	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	330		ug/kg	7.5	117-81-7	
4-Bromophenyl phenyl ether	Not detected	330		ug/kg	7.5	101-55-3	
Butyl benzyl phthalate	Not detected	330		ug/kg	7.5	85-68-7	
4-Chloroaniline	Not detected	330		ug/kg	7.5	106-47-8	
2-Chloronaphthalene	Not detected	330		ug/kg	7.5	91-58-7	
4-Chloro-3-methylphenol	Not detected	280		ug/kg	7.5	59-50-7	
2-Chlorophenol	Not detected	330		ug/kg	7.5	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	330		ug/kg	7.5	7005-72-3	
Chrysene	Not detected	330		ug/kg	7.5	218-01-9	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330		ug/kg	7.5	3/4-CRESOL	
2-Methylphenol (o-Cresol)	Not detected	330		ug/kg	7.5	95-48-7	
Dibenzo(ah)anthracene	Not detected	330		ug/kg	7.5	53-70-3	
Dibenzofuran	Not detected	330		ug/kg	7.5	132-64-9	
di-n-Butyl phthalate	Not detected	330		ug/kg	7.5	84-74-2	
1,2-Dichlorobenzene*	Not detected	330		ug/kg	7.5	95-50-1	
1,3-Dichlorobenzene	Not detected	330		ug/kg	7.5	541-73-1	
1,4-Dichlorobenzene	Not detected	330		ug/kg	7.5	106-46-7	
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	7.5	91-94-1	
2,4-Dichlorophenol	Not detected	330		ug/kg	7.5	120-83-2	
Diethyl phthalate	Not detected	330		ug/kg	7.5	84-66-2	
2,4-Dimethylphenol	Not detected	330		ug/kg	7.5	105-67-9	

Lab Sample ID: S09614.05 (continued)
Sample Tag: SB-83/84-45(0-2)_11192019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 02:45, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dimethyl phthalate	Not detected	330		ug/kg	7.5	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	7.5	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	7.5	51-28-5	
2,4-Dinitrotoluene	Not detected	330		ug/kg	7.5	121-14-2	
2,6-Dinitrotoluene	Not detected	330		ug/kg	7.5	606-20-2	
1,2-Diphenylhydrazine	Not detected	330		ug/kg	7.5	122-66-7	
di-n-Octyl phthalate	Not detected	330		ug/kg	7.5	117-84-0	
Fluoranthene	390	330		ug/kg	7.5	206-44-0	
Fluorene	Not detected	330		ug/kg	7.5	86-73-7	
Hexachlorobenzene	Not detected	330		ug/kg	7.5	118-74-1	
Hexachlorobutadiene	Not detected	330		ug/kg	7.5	87-68-3	
Hexachlorocyclopentadiene	Not detected	330		ug/kg	7.5	77-47-4	
Hexachloroethane	Not detected	330		ug/kg	7.5	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	330		ug/kg	7.5	193-39-5	
Isophorone	Not detected	330		ug/kg	7.5	78-59-1	
2-Methylnaphthalene	360	330		ug/kg	7.5	91-57-6	
Naphthalene	780	330		ug/kg	7.5	91-20-3	
2-Nitroaniline	Not detected	830		ug/kg	7.5	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	7.5	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	7.5	100-01-6	
Nitrobenzene	Not detected	330		ug/kg	7.5	98-95-3	
2-Nitrophenol	Not detected	330		ug/kg	7.5	88-75-5	
4-Nitrophenol	Not detected	830		ug/kg	7.5	100-02-7	
N-Nitrosodiphenylamine	Not detected	330		ug/kg	7.5	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	330		ug/kg	7.5	621-64-7	
Pentachlorophenol	Not detected	330		ug/kg	7.5	87-86-5	
Phenanthrene	770	330		ug/kg	7.5	85-01-8	
Phenol	Not detected	330		ug/kg	7.5	108-95-2	
Pyrene	Not detected	330		ug/kg	7.5	129-00-0	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	7.5	120-82-1	
2,4,5-Trichlorophenol	Not detected	330		ug/kg	7.5	95-95-4	
2,4,6-Trichlorophenol	Not detected	330		ug/kg	7.5	88-06-2	

Lab Sample ID: S09614.06
Sample Tag: SB-83/84-45(8-10)_11192019
Collected Date/Time: 11/19/2019 15:32
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	
BNA Extraction (Replicate 01)*	Completed	SW3546	11/26/19 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 04:17, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	590		ug/kg	20	83-32-9	XS
Acenaphthylene	Not detected	590		ug/kg	20	208-96-8	XS
Anthracene	Not detected	590		ug/kg	20	120-12-7	X
Benzo(a)anthracene	930	590		ug/kg	20	56-55-3	X
Benzo(b)fluoranthene	Not detected	590		ug/kg	20	205-99-2	X
Benzo(k)fluoranthene	Not detected	590		ug/kg	20	207-08-9	X
Benzo(ghi)perylene	Not detected	590		ug/kg	20	191-24-2	X
Benzo(a)pyrene	Not detected	590		ug/kg	20	50-32-8	X
bis(2-Chloroethoxy)methane	Not detected	590		ug/kg	20	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	590		ug/kg	20	111-44-4	XS
bis(2-Chloroisopropyl)ether*	Not detected	590		ug/kg	20	108-60-1	XS
bis(2-Ethylhexyl)phthalate	Not detected	590		ug/kg	20	117-81-7	X
4-Bromophenyl phenyl ether	Not detected	590		ug/kg	20	101-55-3	X
Butyl benzyl phthalate	Not detected	590		ug/kg	20	85-68-7	X
4-Chloroaniline	Not detected	590		ug/kg	20	106-47-8	X
2-Chloronaphthalene	Not detected	590		ug/kg	20	91-58-7	XS
4-Chloro-3-methylphenol	Not detected	590		ug/kg	20	59-50-7	X
2-Chlorophenol	Not detected	590		ug/kg	20	95-57-8	XS
4-Chlorophenyl phenyl ether	Not detected	590		ug/kg	20	7005-72-3	XS
Chrysene	1,610	590		ug/kg	20	218-01-9	X
3-, 4-Methylphenol (p,m-Cresol)	Not detected	590		ug/kg	20	3/4-CRESOL	XS
2-Methylphenol (o-Cresol)	Not detected	590		ug/kg	20	95-48-7	XS
Dibenzo(ah)anthracene	Not detected	590		ug/kg	20	53-70-3	X
Dibenzofuran	Not detected	590		ug/kg	20	132-64-9	X
di-n-Butyl phthalate	Not detected	590		ug/kg	20	84-74-2	X
1,2-Dichlorobenzene*	Not detected	590		ug/kg	20	95-50-1	XS
1,3-Dichlorobenzene	Not detected	590		ug/kg	20	541-73-1	XS
1,4-Dichlorobenzene	Not detected	590		ug/kg	20	106-46-7	XS
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	20	91-94-1	
2,4-Dichlorophenol	Not detected	590		ug/kg	20	120-83-2	X

X-Elevated reporting limit due to matrix interference S-Surrogate recovery outside of control limits

Lab Sample ID: S09614.06 (continued)
Sample Tag: SB-83/84-45(8-10)_11192019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 04:17, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl phthalate	Not detected	590		ug/kg	20	84-66-2	XS
2,4-Dimethylphenol	Not detected	590		ug/kg	20	105-67-9	X
Dimethyl phthalate	Not detected	590		ug/kg	20	131-11-3	XS
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	20	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	20	51-28-5	S
2,4-Dinitrotoluene	Not detected	590		ug/kg	20	121-14-2	XS
2,6-Dinitrotoluene	Not detected	590		ug/kg	20	606-20-2	XS
1,2-Diphenylhydrazine	Not detected	590		ug/kg	20	122-66-7	X
di-n-Octyl phthalate	Not detected	590		ug/kg	20	117-84-0	X
Fluoranthene	840	590		ug/kg	20	206-44-0	X
Fluorene	Not detected	590		ug/kg	20	86-73-7	XS
Hexachlorobenzene	Not detected	590		ug/kg	20	118-74-1	X
Hexachlorobutadiene	Not detected	590		ug/kg	20	87-68-3	X
Hexachlorocyclopentadiene	Not detected	590		ug/kg	20	77-47-4	XS
Hexachloroethane	Not detected	590		ug/kg	20	67-72-1	XS
Indeno(1,2,3-cd)pyrene	Not detected	590		ug/kg	20	193-39-5	X
Isophorone	Not detected	590		ug/kg	20	78-59-1	X
2-Methylnaphthalene	1,310	590		ug/kg	20	91-57-6	X
Naphthalene	Not detected	590		ug/kg	20	91-20-3	X
2-Nitroaniline	Not detected	830		ug/kg	20	88-74-4	S
3-Nitroaniline	Not detected	830		ug/kg	20	99-09-2	S
4-Nitroaniline	Not detected	830		ug/kg	20	100-01-6	S
Nitrobenzene	Not detected	590		ug/kg	20	98-95-3	X
2-Nitrophenol	Not detected	590		ug/kg	20	88-75-5	X
4-Nitrophenol	Not detected	830		ug/kg	20	100-02-7	S
N-Nitrosodiphenylamine	Not detected	590		ug/kg	20	86-30-6	X
N-Nitrosodi-n-propylamine	Not detected	590		ug/kg	20	621-64-7	XS
Pentachlorophenol	Not detected	590		ug/kg	20	87-86-5	X
Phenanthrene	1,690	590		ug/kg	20	85-01-8	X
Phenol	Not detected	590		ug/kg	20	108-95-2	XS
Pyrene	1,150	590		ug/kg	20	129-00-0	X
1,2,4-Trichlorobenzene	Not detected	590		ug/kg	20	120-82-1	X
2,4,5-Trichlorophenol	Not detected	590		ug/kg	20	95-95-4	XS
2,4,6-Trichlorophenol	Not detected	590		ug/kg	20	88-06-2	XS

Semi-Volatile Organics - MDEQ (Replicate 01), Method: SW8270D, Run Date: 11/27/19 05:55, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	600		ug/kg	20	83-32-9	X
Acenaphthylene	Not detected	600		ug/kg	20	208-96-8	X
Anthracene	Not detected	600		ug/kg	20	120-12-7	X
Benzo(a)anthracene	Not detected	600		ug/kg	20	56-55-3	X
Benzo(b)fluoranthene	Not detected	600		ug/kg	20	205-99-2	X
Benzo(k)fluoranthene	Not detected	600		ug/kg	20	207-08-9	X
Benzo(ghi)perylene	Not detected	600		ug/kg	20	191-24-2	X
Benzo(a)pyrene	Not detected	600		ug/kg	20	50-32-8	X
bis(2-Chloroethoxy)methane	Not detected	600		ug/kg	20	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	600		ug/kg	20	111-44-4	X
bis(2-Chloroisopropyl)ether*	Not detected	600		ug/kg	20	108-60-1	X
bis(2-Ethylhexyl)phthalate	Not detected	600		ug/kg	20	117-81-7	X

X-Elevated reporting limit due to matrix interference S-Surrogate recovery outside of control limits

Lab Sample ID: S09614.06 (continued)
Sample Tag: SB-83/84-45(8-10)_11192019

Semi-Volatile Organics - MDEQ (Replicate 01), Method: SW8270D, Run Date: 11/27/19 05:55, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Bromophenyl phenyl ether	Not detected	600		ug/kg	20	101-55-3	X
Butyl benzyl phthalate	Not detected	600		ug/kg	20	85-68-7	X
4-Chloroaniline	Not detected	600		ug/kg	20	106-47-8	X
2-Chloronaphthalene	Not detected	600		ug/kg	20	91-58-7	X
4-Chloro-3-methylphenol	Not detected	600		ug/kg	20	59-50-7	X
2-Chlorophenol	Not detected	600		ug/kg	20	95-57-8	X
4-Chlorophenyl phenyl ether	Not detected	600		ug/kg	20	7005-72-3	X
Chrysene	1,490	600		ug/kg	20	218-01-9	X
3-, 4-Methylphenol (p,m-Cresol)	Not detected	600		ug/kg	20	3/4-CRESOL	X
2-Methylphenol (o-Cresol)	Not detected	600		ug/kg	20	95-48-7	X
Dibenzo(ah)anthracene	Not detected	600		ug/kg	20	53-70-3	X
Dibenzofuran	Not detected	600		ug/kg	20	132-64-9	X
di-n-Butyl phthalate	Not detected	600		ug/kg	20	84-74-2	X
1,2-Dichlorobenzene*	Not detected	600		ug/kg	20	95-50-1	X
1,3-Dichlorobenzene	Not detected	600		ug/kg	20	541-73-1	X
1,4-Dichlorobenzene	Not detected	600		ug/kg	20	106-46-7	X
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	20	91-94-1	
2,4-Dichlorophenol	Not detected	600		ug/kg	20	120-83-2	X
Diethyl phthalate	Not detected	600		ug/kg	20	84-66-2	X
2,4-Dimethylphenol	Not detected	600		ug/kg	20	105-67-9	X
Dimethyl phthalate	Not detected	600		ug/kg	20	131-11-3	X
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	20	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	20	51-28-5	
2,4-Dinitrotoluene	Not detected	600		ug/kg	20	121-14-2	X
2,6-Dinitrotoluene	Not detected	600		ug/kg	20	606-20-2	X
1,2-Diphenylhydrazine	Not detected	600		ug/kg	20	122-66-7	X
di-n-Octyl phthalate	Not detected	600		ug/kg	20	117-84-0	X
Fluoranthene	660	600		ug/kg	20	206-44-0	X
Fluorene	Not detected	600		ug/kg	20	86-73-7	X
Hexachlorobenzene	Not detected	600		ug/kg	20	118-74-1	X
Hexachlorobutadiene	Not detected	600		ug/kg	20	87-68-3	X
Hexachlorocyclopentadiene	Not detected	600		ug/kg	20	77-47-4	X
Hexachloroethane	Not detected	600		ug/kg	20	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	600		ug/kg	20	193-39-5	X
Isophorone	Not detected	600		ug/kg	20	78-59-1	X
2-Methylnaphthalene	710	600		ug/kg	20	91-57-6	X
Naphthalene	Not detected	600		ug/kg	20	91-20-3	X
2-Nitroaniline	Not detected	830		ug/kg	20	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	20	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	20	100-01-6	
Nitrobenzene	Not detected	600		ug/kg	20	98-95-3	X
2-Nitrophenol	Not detected	600		ug/kg	20	88-75-5	X
4-Nitrophenol	Not detected	830		ug/kg	20	100-02-7	
N-Nitrosodiphenylamine	Not detected	600		ug/kg	20	86-30-6	X
N-Nitrosodi-n-propylamine	Not detected	600		ug/kg	20	621-64-7	X
Pentachlorophenol	Not detected	600		ug/kg	20	87-86-5	X
Phenanthrene	1,090	600		ug/kg	20	85-01-8	X
Phenol	Not detected	600		ug/kg	20	108-95-2	X
Pyrene	880	600		ug/kg	20	129-00-0	X

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S09614.06 (continued)

Sample Tag: SB-83/84-45(8-10)_11192019

Semi-Volatile Organics - MDEQ (Replicate 01), Method: SW8270D, Run Date: 11/27/19 05:55, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,4-Trichlorobenzene	Not detected	600		ug/kg	20	120-82-1	X
2,4,5-Trichlorophenol	Not detected	600		ug/kg	20	95-95-4	X
2,4,6-Trichlorophenol	Not detected	600		ug/kg	20	88-06-2	X

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S09614.07
Sample Tag: SB-81-32(3.5)_11192019
Collected Date/Time: 11/19/2019 14:20
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 18:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.08
Sample Tag: SB-81-32(3.5-5)_11192019
Collected Date/Time: 11/19/2019 14:40
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 19:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.09
Sample Tag: SB-03-03-03(3-5)_11192019
Collected Date/Time: 11/19/2019 13:55
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 19:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.10

Sample Tag: SB-03-03-03(8-10)_11192019

Collected Date/Time: 11/19/2019 14:05

Matrix: Soil

COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Lab Sample ID: S09614.11
Sample Tag: SB-03-07(4-5)_11192019
Collected Date/Time: 11/19/2019 13:38
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 04:48, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330		ug/kg	7.5	83-32-9	
Acenaphthylene	Not detected	330		ug/kg	7.5	208-96-8	
Anthracene	Not detected	330		ug/kg	7.5	120-12-7	
Benzo(a)anthracene	4,920	330		ug/kg	7.5	56-55-3	
Benzo(b)fluoranthene	8,500	330		ug/kg	7.5	205-99-2	
Benzo(k)fluoranthene	6,550	330		ug/kg	7.5	207-08-9	
Benzo(ghi)perylene	6,200	330		ug/kg	7.5	191-24-2	
Benzo(a)pyrene	6,670	330		ug/kg	7.5	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	330		ug/kg	7.5	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330		ug/kg	7.5	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330		ug/kg	7.5	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	330		ug/kg	7.5	117-81-7	
4-Bromophenyl phenyl ether	Not detected	330		ug/kg	7.5	101-55-3	
Butyl benzyl phthalate	Not detected	330		ug/kg	7.5	85-68-7	
4-Chloroaniline	Not detected	330		ug/kg	7.5	106-47-8	
2-Chloronaphthalene	Not detected	330		ug/kg	7.5	91-58-7	
4-Chloro-3-methylphenol	Not detected	280		ug/kg	7.5	59-50-7	
2-Chlorophenol	Not detected	330		ug/kg	7.5	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	330		ug/kg	7.5	7005-72-3	
Chrysene	7,170	330		ug/kg	7.5	218-01-9	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330		ug/kg	7.5	3/4-CRESOL	
2-Methylphenol (o-Cresol)	Not detected	330		ug/kg	7.5	95-48-7	
Dibenzo(ah)anthracene	1,360	330		ug/kg	7.5	53-70-3	
Dibenzofuran	Not detected	330		ug/kg	7.5	132-64-9	
di-n-Butyl phthalate	Not detected	330		ug/kg	7.5	84-74-2	
1,2-Dichlorobenzene*	Not detected	330		ug/kg	7.5	95-50-1	
1,3-Dichlorobenzene	Not detected	330		ug/kg	7.5	541-73-1	
1,4-Dichlorobenzene	Not detected	330		ug/kg	7.5	106-46-7	
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	7.5	91-94-1	
2,4-Dichlorophenol	Not detected	330		ug/kg	7.5	120-83-2	
Diethyl phthalate	Not detected	330		ug/kg	7.5	84-66-2	
2,4-Dimethylphenol	Not detected	330		ug/kg	7.5	105-67-9	

Lab Sample ID: S09614.11 (continued)
Sample Tag: SB-03-07(4-5)_11192019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 04:48, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dimethyl phthalate	Not detected	330		ug/kg	7.5	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	7.5	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	7.5	51-28-5	
2,4-Dinitrotoluene	Not detected	330		ug/kg	7.5	121-14-2	
2,6-Dinitrotoluene	Not detected	330		ug/kg	7.5	606-20-2	
1,2-Diphenylhydrazine	Not detected	330		ug/kg	7.5	122-66-7	
di-n-Octyl phthalate	Not detected	330		ug/kg	7.5	117-84-0	
Fluoranthene	4,300	330		ug/kg	7.5	206-44-0	
Fluorene	Not detected	330		ug/kg	7.5	86-73-7	
Hexachlorobenzene	Not detected	330		ug/kg	7.5	118-74-1	
Hexachlorobutadiene	Not detected	330		ug/kg	7.5	87-68-3	
Hexachlorocyclopentadiene	Not detected	330		ug/kg	7.5	77-47-4	
Hexachloroethane	Not detected	330		ug/kg	7.5	67-72-1	
Indeno(1,2,3-cd)pyrene	4,530	330		ug/kg	7.5	193-39-5	
Isophorone	Not detected	330		ug/kg	7.5	78-59-1	
2-Methylnaphthalene	Not detected	330		ug/kg	7.5	91-57-6	
Naphthalene	Not detected	330		ug/kg	7.5	91-20-3	
2-Nitroaniline	Not detected	830		ug/kg	7.5	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	7.5	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	7.5	100-01-6	
Nitrobenzene	Not detected	330		ug/kg	7.5	98-95-3	
2-Nitrophenol	Not detected	330		ug/kg	7.5	88-75-5	
4-Nitrophenol	Not detected	830		ug/kg	7.5	100-02-7	
N-Nitrosodiphenylamine	Not detected	330		ug/kg	7.5	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	330		ug/kg	7.5	621-64-7	
Pentachlorophenol	Not detected	330		ug/kg	7.5	87-86-5	
Phenanthrene	1,110	330		ug/kg	7.5	85-01-8	
Phenol	Not detected	330		ug/kg	7.5	108-95-2	
Pyrene	4,460	330		ug/kg	7.5	129-00-0	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	7.5	120-82-1	
2,4,5-Trichlorophenol	Not detected	330		ug/kg	7.5	95-95-4	
2,4,6-Trichlorophenol	Not detected	330		ug/kg	7.5	88-06-2	

Lab Sample ID: S09614.12
Sample Tag: SB-03-07(8-10)_11192019
Collected Date/Time: 11/19/2019 13:48
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 06:21, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330		ug/kg	7.5	83-32-9	
Acenaphthylene	Not detected	330		ug/kg	7.5	208-96-8	
Anthracene	740	330		ug/kg	7.5	120-12-7	
Benzo(a)anthracene	4,620	330		ug/kg	7.5	56-55-3	
Benzo(b)fluoranthene	7,950	330		ug/kg	7.5	205-99-2	
Benzo(k)fluoranthene	6,430	330		ug/kg	7.5	207-08-9	
Benzo(ghi)perylene	3,370	330		ug/kg	7.5	191-24-2	
Benzo(a)pyrene	6,350	330		ug/kg	7.5	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	330		ug/kg	7.5	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330		ug/kg	7.5	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330		ug/kg	7.5	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	330		ug/kg	7.5	117-81-7	
4-Bromophenyl phenyl ether	Not detected	330		ug/kg	7.5	101-55-3	
Butyl benzyl phthalate	Not detected	330		ug/kg	7.5	85-68-7	
4-Chloroaniline	Not detected	330		ug/kg	7.5	106-47-8	
2-Chloronaphthalene	Not detected	330		ug/kg	7.5	91-58-7	
4-Chloro-3-methylphenol	Not detected	280		ug/kg	7.5	59-50-7	
2-Chlorophenol	Not detected	330		ug/kg	7.5	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	330		ug/kg	7.5	7005-72-3	
Chrysene	6,180	330		ug/kg	7.5	218-01-9	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330		ug/kg	7.5	3/4-CRESOL	
2-Methylphenol (o-Cresol)	Not detected	330		ug/kg	7.5	95-48-7	
Dibenzo(ah)anthracene	980	330		ug/kg	7.5	53-70-3	
Dibenzofuran	Not detected	330		ug/kg	7.5	132-64-9	
di-n-Butyl phthalate	Not detected	330		ug/kg	7.5	84-74-2	
1,2-Dichlorobenzene*	Not detected	330		ug/kg	7.5	95-50-1	
1,3-Dichlorobenzene	Not detected	330		ug/kg	7.5	541-73-1	
1,4-Dichlorobenzene	Not detected	330		ug/kg	7.5	106-46-7	
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	7.5	91-94-1	
2,4-Dichlorophenol	Not detected	330		ug/kg	7.5	120-83-2	
Diethyl phthalate	Not detected	330		ug/kg	7.5	84-66-2	
2,4-Dimethylphenol	Not detected	330		ug/kg	7.5	105-67-9	

Lab Sample ID: S09614.12 (continued)
Sample Tag: SB-03-07(8-10)_11192019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 06:21, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dimethyl phthalate	Not detected	330		ug/kg	7.5	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	7.5	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	7.5	51-28-5	
2,4-Dinitrotoluene	Not detected	330		ug/kg	7.5	121-14-2	
2,6-Dinitrotoluene	Not detected	330		ug/kg	7.5	606-20-2	
1,2-Diphenylhydrazine	430	330		ug/kg	7.5	122-66-7	
di-n-Octyl phthalate	Not detected	330		ug/kg	7.5	117-84-0	
Fluoranthene	5,630	330		ug/kg	7.5	206-44-0	
Fluorene	380	330		ug/kg	7.5	86-73-7	
Hexachlorobenzene	Not detected	330		ug/kg	7.5	118-74-1	
Hexachlorobutadiene	Not detected	330		ug/kg	7.5	87-68-3	
Hexachlorocyclopentadiene	Not detected	330		ug/kg	7.5	77-47-4	
Hexachloroethane	Not detected	330		ug/kg	7.5	67-72-1	
Indeno(1,2,3-cd)pyrene	3,360	330		ug/kg	7.5	193-39-5	
Isophorone	Not detected	330		ug/kg	7.5	78-59-1	
2-Methylnaphthalene	Not detected	330		ug/kg	7.5	91-57-6	
Naphthalene	Not detected	330		ug/kg	7.5	91-20-3	
2-Nitroaniline	Not detected	830		ug/kg	7.5	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	7.5	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	7.5	100-01-6	
Nitrobenzene	Not detected	330		ug/kg	7.5	98-95-3	
2-Nitrophenol	Not detected	330		ug/kg	7.5	88-75-5	
4-Nitrophenol	Not detected	830		ug/kg	7.5	100-02-7	
N-Nitrosodiphenylamine	Not detected	330		ug/kg	7.5	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	330		ug/kg	7.5	621-64-7	
Pentachlorophenol	Not detected	330		ug/kg	7.5	87-86-5	
Phenanthrene	3,620	330		ug/kg	7.5	85-01-8	
Phenol	Not detected	330		ug/kg	7.5	108-95-2	
Pyrene	5,450	330		ug/kg	7.5	129-00-0	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	7.5	120-82-1	
2,4,5-Trichlorophenol	Not detected	330		ug/kg	7.5	95-95-4	
2,4,6-Trichlorophenol	Not detected	330		ug/kg	7.5	88-06-2	

Lab Sample ID: S09614.13
Sample Tag: SB-03-09(2-3)_11192019
Collected Date/Time: 11/19/2019 13:15
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 06:53, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	420	330		ug/kg	7.5	83-32-9	
Acenaphthylene	Not detected	330		ug/kg	7.5	208-96-8	
Anthracene	1,290	330		ug/kg	7.5	120-12-7	
Benzo(a)anthracene	10,420	330		ug/kg	7.5	56-55-3	
Benzo(b)fluoranthene	17,580	330		ug/kg	7.5	205-99-2	
Benzo(k)fluoranthene	12,190	330		ug/kg	7.5	207-08-9	
Benzo(ghi)perylene	8,250	330		ug/kg	7.5	191-24-2	
Benzo(a)pyrene	13,530	330		ug/kg	7.5	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	330		ug/kg	7.5	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330		ug/kg	7.5	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330		ug/kg	7.5	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	330		ug/kg	7.5	117-81-7	
4-Bromophenyl phenyl ether	Not detected	330		ug/kg	7.5	101-55-3	
Butyl benzyl phthalate	Not detected	330		ug/kg	7.5	85-68-7	
4-Chloroaniline	Not detected	330		ug/kg	7.5	106-47-8	
2-Chloronaphthalene	Not detected	330		ug/kg	7.5	91-58-7	
4-Chloro-3-methylphenol	Not detected	280		ug/kg	7.5	59-50-7	
2-Chlorophenol	Not detected	330		ug/kg	7.5	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	330		ug/kg	7.5	7005-72-3	
Chrysene	13,790	330		ug/kg	7.5	218-01-9	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330		ug/kg	7.5	3/4-CRESOL	
2-Methylphenol (o-Cresol)	Not detected	330		ug/kg	7.5	95-48-7	
Dibenzo(ah)anthracene	1,930	330		ug/kg	7.5	53-70-3	
Dibenzofuran	Not detected	330		ug/kg	7.5	132-64-9	
di-n-Butyl phthalate	Not detected	330		ug/kg	7.5	84-74-2	
1,2-Dichlorobenzene*	Not detected	330		ug/kg	7.5	95-50-1	
1,3-Dichlorobenzene	Not detected	330		ug/kg	7.5	541-73-1	
1,4-Dichlorobenzene	Not detected	330		ug/kg	7.5	106-46-7	
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	7.5	91-94-1	
2,4-Dichlorophenol	Not detected	330		ug/kg	7.5	120-83-2	
Diethyl phthalate	Not detected	330		ug/kg	7.5	84-66-2	
2,4-Dimethylphenol	Not detected	330		ug/kg	7.5	105-67-9	

Lab Sample ID: S09614.13 (continued)
Sample Tag: SB-03-09(2-3)_11192019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 06:53, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dimethyl phthalate	Not detected	330		ug/kg	7.5	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	7.5	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	7.5	51-28-5	
2,4-Dinitrotoluene	Not detected	330		ug/kg	7.5	121-14-2	
2,6-Dinitrotoluene	Not detected	330		ug/kg	7.5	606-20-2	
1,2-Diphenylhydrazine	Not detected	330		ug/kg	7.5	122-66-7	
di-n-Octyl phthalate	Not detected	330		ug/kg	7.5	117-84-0	
Fluoranthene	15,700	330		ug/kg	7.5	206-44-0	
Fluorene	380	330		ug/kg	7.5	86-73-7	
Hexachlorobenzene	Not detected	330		ug/kg	7.5	118-74-1	
Hexachlorobutadiene	Not detected	330		ug/kg	7.5	87-68-3	
Hexachlorocyclopentadiene	Not detected	330		ug/kg	7.5	77-47-4	
Hexachloroethane	Not detected	330		ug/kg	7.5	67-72-1	
Indeno(1,2,3-cd)pyrene	7,110	330		ug/kg	7.5	193-39-5	
Isophorone	Not detected	330		ug/kg	7.5	78-59-1	
2-Methylnaphthalene	Not detected	330		ug/kg	7.5	91-57-6	
Naphthalene	Not detected	330		ug/kg	7.5	91-20-3	
2-Nitroaniline	Not detected	830		ug/kg	7.5	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	7.5	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	7.5	100-01-6	
Nitrobenzene	Not detected	330		ug/kg	7.5	98-95-3	
2-Nitrophenol	Not detected	330		ug/kg	7.5	88-75-5	
4-Nitrophenol	Not detected	830		ug/kg	7.5	100-02-7	
N-Nitrosodiphenylamine	Not detected	330		ug/kg	7.5	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	330		ug/kg	7.5	621-64-7	
Pentachlorophenol	Not detected	330		ug/kg	7.5	87-86-5	
Phenanthrene	6,410	330		ug/kg	7.5	85-01-8	
Phenol	Not detected	330		ug/kg	7.5	108-95-2	
Pyrene	14,300	330		ug/kg	7.5	129-00-0	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	7.5	120-82-1	
2,4,5-Trichlorophenol	Not detected	330		ug/kg	7.5	95-95-4	
2,4,6-Trichlorophenol	Not detected	330		ug/kg	7.5	88-06-2	

Lab Sample ID: S09614.14
Sample Tag: SB-03-09(8-10)_11192019
Collected Date/Time: 11/19/2019 13:20
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 03:15, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330		ug/kg	7.5	83-32-9	
Acenaphthylene	Not detected	330		ug/kg	7.5	208-96-8	
Anthracene	Not detected	330		ug/kg	7.5	120-12-7	
Benzo(a)anthracene	Not detected	330		ug/kg	7.5	56-55-3	
Benzo(b)fluoranthene	Not detected	330		ug/kg	7.5	205-99-2	
Benzo(k)fluoranthene	Not detected	330		ug/kg	7.5	207-08-9	
Benzo(ghi)perylene	Not detected	330		ug/kg	7.5	191-24-2	
Benzo(a)pyrene	Not detected	330		ug/kg	7.5	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	330		ug/kg	7.5	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330		ug/kg	7.5	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330		ug/kg	7.5	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	330		ug/kg	7.5	117-81-7	
4-Bromophenyl phenyl ether	Not detected	330		ug/kg	7.5	101-55-3	
Butyl benzyl phthalate	Not detected	330		ug/kg	7.5	85-68-7	
4-Chloroaniline	Not detected	330		ug/kg	7.5	106-47-8	
2-Chloronaphthalene	Not detected	330		ug/kg	7.5	91-58-7	
4-Chloro-3-methylphenol	Not detected	280		ug/kg	7.5	59-50-7	
2-Chlorophenol	Not detected	330		ug/kg	7.5	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	330		ug/kg	7.5	7005-72-3	
Chrysene	Not detected	330		ug/kg	7.5	218-01-9	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330		ug/kg	7.5	3/4-CRESOL	
2-Methylphenol (o-Cresol)	Not detected	330		ug/kg	7.5	95-48-7	
Dibenzo(ah)anthracene	Not detected	330		ug/kg	7.5	53-70-3	
Dibenzofuran	Not detected	330		ug/kg	7.5	132-64-9	
di-n-Butyl phthalate	Not detected	330		ug/kg	7.5	84-74-2	
1,2-Dichlorobenzene*	Not detected	330		ug/kg	7.5	95-50-1	
1,3-Dichlorobenzene	Not detected	330		ug/kg	7.5	541-73-1	
1,4-Dichlorobenzene	Not detected	330		ug/kg	7.5	106-46-7	
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	7.5	91-94-1	
2,4-Dichlorophenol	Not detected	330		ug/kg	7.5	120-83-2	
Diethyl phthalate	Not detected	330		ug/kg	7.5	84-66-2	
2,4-Dimethylphenol	Not detected	330		ug/kg	7.5	105-67-9	

Lab Sample ID: S09614.14 (continued)
Sample Tag: SB-03-09(8-10)_11192019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 03:15, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dimethyl phthalate	Not detected	330		ug/kg	7.5	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	7.5	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	7.5	51-28-5	
2,4-Dinitrotoluene	Not detected	330		ug/kg	7.5	121-14-2	
2,6-Dinitrotoluene	Not detected	330		ug/kg	7.5	606-20-2	
1,2-Diphenylhydrazine	Not detected	330		ug/kg	7.5	122-66-7	
di-n-Octyl phthalate	Not detected	330		ug/kg	7.5	117-84-0	
Fluoranthene	Not detected	330		ug/kg	7.5	206-44-0	
Fluorene	Not detected	330		ug/kg	7.5	86-73-7	
Hexachlorobenzene	Not detected	330		ug/kg	7.5	118-74-1	
Hexachlorobutadiene	Not detected	330		ug/kg	7.5	87-68-3	
Hexachlorocyclopentadiene	Not detected	330		ug/kg	7.5	77-47-4	
Hexachloroethane	Not detected	330		ug/kg	7.5	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	330		ug/kg	7.5	193-39-5	
Isophorone	Not detected	330		ug/kg	7.5	78-59-1	
2-Methylnaphthalene	Not detected	330		ug/kg	7.5	91-57-6	
Naphthalene	Not detected	330		ug/kg	7.5	91-20-3	
2-Nitroaniline	Not detected	830		ug/kg	7.5	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	7.5	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	7.5	100-01-6	
Nitrobenzene	Not detected	330		ug/kg	7.5	98-95-3	
2-Nitrophenol	Not detected	330		ug/kg	7.5	88-75-5	
4-Nitrophenol	Not detected	830		ug/kg	7.5	100-02-7	
N-Nitrosodiphenylamine	Not detected	330		ug/kg	7.5	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	330		ug/kg	7.5	621-64-7	
Pentachlorophenol	Not detected	330		ug/kg	7.5	87-86-5	
Phenanthrene	Not detected	330		ug/kg	7.5	85-01-8	
Phenol	Not detected	330		ug/kg	7.5	108-95-2	
Pyrene	Not detected	330		ug/kg	7.5	129-00-0	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	7.5	120-82-1	
2,4,5-Trichlorophenol	Not detected	330		ug/kg	7.5	95-95-4	
2,4,6-Trichlorophenol	Not detected	330		ug/kg	7.5	88-06-2	

Lab Sample ID: S09614.15
Sample Tag: SB-03-08(1-3)_11192019
Collected Date/Time: 11/19/2019 12:55
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	94	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 19:24, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 07:23, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330		ug/kg	7.5	83-32-9	
Acenaphthylene	Not detected	330		ug/kg	7.5	208-96-8	
Anthracene	Not detected	330		ug/kg	7.5	120-12-7	
Benzo(a)anthracene	570	330		ug/kg	7.5	56-55-3	
Benzo(b)fluoranthene	900	330		ug/kg	7.5	205-99-2	
Benzo(k)fluoranthene	740	330		ug/kg	7.5	207-08-9	
Benzo(ghi)perylene	640	330		ug/kg	7.5	191-24-2	
Benzo(a)pyrene	710	330		ug/kg	7.5	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	330		ug/kg	7.5	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330		ug/kg	7.5	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330		ug/kg	7.5	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	330		ug/kg	7.5	117-81-7	
4-Bromophenyl phenyl ether	Not detected	330		ug/kg	7.5	101-55-3	
Butyl benzyl phthalate	Not detected	330		ug/kg	7.5	85-68-7	
4-Chloroaniline	Not detected	330		ug/kg	7.5	106-47-8	
2-Chloronaphthalene	Not detected	330		ug/kg	7.5	91-58-7	
4-Chloro-3-methylphenol	Not detected	280		ug/kg	7.5	59-50-7	
2-Chlorophenol	Not detected	330		ug/kg	7.5	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	330		ug/kg	7.5	7005-72-3	
Chrysene	780	330		ug/kg	7.5	218-01-9	

Lab Sample ID: S09614.15 (continued)
Sample Tag: SB-03-08(1-3)_11192019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 07:23, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330		ug/kg	7.5	3/4-CRESOL	
2-Methylphenol (o-Cresol)	Not detected	330		ug/kg	7.5	95-48-7	
Dibenzo(ah)anthracene	Not detected	330		ug/kg	7.5	53-70-3	
Dibenzofuran	340	330		ug/kg	7.5	132-64-9	
di-n-Butyl phthalate	Not detected	330		ug/kg	7.5	84-74-2	
1,2-Dichlorobenzene*	Not detected	330		ug/kg	7.5	95-50-1	
1,3-Dichlorobenzene	Not detected	330		ug/kg	7.5	541-73-1	
1,4-Dichlorobenzene	Not detected	330		ug/kg	7.5	106-46-7	
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	7.5	91-94-1	
2,4-Dichlorophenol	Not detected	330		ug/kg	7.5	120-83-2	
Diethyl phthalate	Not detected	330		ug/kg	7.5	84-66-2	
2,4-Dimethylphenol	Not detected	330		ug/kg	7.5	105-67-9	
Dimethyl phthalate	Not detected	330		ug/kg	7.5	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	7.5	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	7.5	51-28-5	
2,4-Dinitrotoluene	Not detected	330		ug/kg	7.5	121-14-2	
2,6-Dinitrotoluene	Not detected	330		ug/kg	7.5	606-20-2	
1,2-Diphenylhydrazine	Not detected	330		ug/kg	7.5	122-66-7	
di-n-Octyl phthalate	Not detected	330		ug/kg	7.5	117-84-0	
Fluoranthene	1,070	330		ug/kg	7.5	206-44-0	
Fluorene	Not detected	330		ug/kg	7.5	86-73-7	
Hexachlorobenzene	Not detected	330		ug/kg	7.5	118-74-1	
Hexachlorobutadiene	Not detected	330		ug/kg	7.5	87-68-3	
Hexachlorocyclopentadiene	Not detected	330		ug/kg	7.5	77-47-4	
Hexachloroethane	Not detected	330		ug/kg	7.5	67-72-1	
Indeno(1,2,3-cd)pyrene	420	330		ug/kg	7.5	193-39-5	
Isophorone	Not detected	330		ug/kg	7.5	78-59-1	
2-Methylnaphthalene	540	330		ug/kg	7.5	91-57-6	
Naphthalene	1,160	330		ug/kg	7.5	91-20-3	
2-Nitroaniline	Not detected	830		ug/kg	7.5	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	7.5	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	7.5	100-01-6	
Nitrobenzene	Not detected	330		ug/kg	7.5	98-95-3	
2-Nitrophenol	Not detected	330		ug/kg	7.5	88-75-5	
4-Nitrophenol	Not detected	830		ug/kg	7.5	100-02-7	
N-Nitrosodiphenylamine	Not detected	330		ug/kg	7.5	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	330		ug/kg	7.5	621-64-7	
Pentachlorophenol	Not detected	330		ug/kg	7.5	87-86-5	
Phenanthrene	930	330		ug/kg	7.5	85-01-8	
Phenol	Not detected	330		ug/kg	7.5	108-95-2	
Pyrene	1,210	330		ug/kg	7.5	129-00-0	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	7.5	120-82-1	
2,4,5-Trichlorophenol	Not detected	330		ug/kg	7.5	95-95-4	
2,4,6-Trichlorophenol	Not detected	330		ug/kg	7.5	88-06-2	

Lab Sample ID: S09614.16
Sample Tag: SB-03-08(8-10)_11192019
Collected Date/Time: 11/19/2019 13:10
Matrix: Soil
COC Reference: 116789

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 19:36, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 07:54, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330		ug/kg	7.5	83-32-9	
Acenaphthylene	Not detected	330		ug/kg	7.5	208-96-8	
Anthracene	Not detected	330		ug/kg	7.5	120-12-7	
Benzo(a)anthracene	4,030	330		ug/kg	7.5	56-55-3	
Benzo(b)fluoranthene	8,880	330		ug/kg	7.5	205-99-2	
Benzo(k)fluoranthene	6,040	330		ug/kg	7.5	207-08-9	
Benzo(ghi)perylene	4,110	330		ug/kg	7.5	191-24-2	
Benzo(a)pyrene	4,640	330		ug/kg	7.5	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	330		ug/kg	7.5	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330		ug/kg	7.5	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330		ug/kg	7.5	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	330		ug/kg	7.5	117-81-7	
4-Bromophenyl phenyl ether	Not detected	330		ug/kg	7.5	101-55-3	
Butyl benzyl phthalate	Not detected	330		ug/kg	7.5	85-68-7	
4-Chloroaniline	Not detected	330		ug/kg	7.5	106-47-8	
2-Chloronaphthalene	Not detected	330		ug/kg	7.5	91-58-7	
4-Chloro-3-methylphenol	Not detected	280		ug/kg	7.5	59-50-7	
2-Chlorophenol	Not detected	330		ug/kg	7.5	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	330		ug/kg	7.5	7005-72-3	
Chrysene	7,010	330		ug/kg	7.5	218-01-9	

Lab Sample ID: S09614.16 (continued)
Sample Tag: SB-03-08(8-10)_11192019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 07:54, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330		ug/kg	7.5	3/4-CRESOL	
2-Methylphenol (o-Cresol)	Not detected	330		ug/kg	7.5	95-48-7	
Dibenzo(ah)anthracene	1,000	330		ug/kg	7.5	53-70-3	
Dibenzofuran	Not detected	330		ug/kg	7.5	132-64-9	
di-n-Butyl phthalate	Not detected	330		ug/kg	7.5	84-74-2	
1,2-Dichlorobenzene*	Not detected	330		ug/kg	7.5	95-50-1	
1,3-Dichlorobenzene	Not detected	330		ug/kg	7.5	541-73-1	
1,4-Dichlorobenzene	Not detected	330		ug/kg	7.5	106-46-7	
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	7.5	91-94-1	
2,4-Dichlorophenol	Not detected	330		ug/kg	7.5	120-83-2	
Diethyl phthalate	Not detected	330		ug/kg	7.5	84-66-2	
2,4-Dimethylphenol	Not detected	330		ug/kg	7.5	105-67-9	
Dimethyl phthalate	Not detected	330		ug/kg	7.5	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	7.5	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	7.5	51-28-5	
2,4-Dinitrotoluene	Not detected	330		ug/kg	7.5	121-14-2	
2,6-Dinitrotoluene	Not detected	330		ug/kg	7.5	606-20-2	
1,2-Diphenylhydrazine	Not detected	330		ug/kg	7.5	122-66-7	
di-n-Octyl phthalate	Not detected	330		ug/kg	7.5	117-84-0	
Fluoranthene	4,610	330		ug/kg	7.5	206-44-0	
Fluorene	Not detected	330		ug/kg	7.5	86-73-7	
Hexachlorobenzene	Not detected	330		ug/kg	7.5	118-74-1	
Hexachlorobutadiene	Not detected	330		ug/kg	7.5	87-68-3	
Hexachlorocyclopentadiene	Not detected	330		ug/kg	7.5	77-47-4	
Hexachloroethane	Not detected	330		ug/kg	7.5	67-72-1	
Indeno(1,2,3-cd)pyrene	3,510	330		ug/kg	7.5	193-39-5	
Isophorone	Not detected	330		ug/kg	7.5	78-59-1	
2-Methylnaphthalene	Not detected	330		ug/kg	7.5	91-57-6	
Naphthalene	Not detected	330		ug/kg	7.5	91-20-3	
2-Nitroaniline	Not detected	830		ug/kg	7.5	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	7.5	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	7.5	100-01-6	
Nitrobenzene	Not detected	330		ug/kg	7.5	98-95-3	
2-Nitrophenol	Not detected	330		ug/kg	7.5	88-75-5	
4-Nitrophenol	Not detected	830		ug/kg	7.5	100-02-7	
N-Nitrosodiphenylamine	Not detected	330		ug/kg	7.5	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	330		ug/kg	7.5	621-64-7	
Pentachlorophenol	Not detected	330		ug/kg	7.5	87-86-5	
Phenanthrene	1,370	330		ug/kg	7.5	85-01-8	
Phenol	Not detected	330		ug/kg	7.5	108-95-2	
Pyrene	4,080	330		ug/kg	7.5	129-00-0	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	7.5	120-82-1	
2,4,5-Trichlorophenol	Not detected	330		ug/kg	7.5	95-95-4	
2,4,6-Trichlorophenol	Not detected	330		ug/kg	7.5	88-06-2	

Lab Sample ID: S09614.17
Sample Tag: SB-81-33(2-4)_11192019
Collected Date/Time: 11/19/2019 09:48
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 17:37, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.18
Sample Tag: SB-81-33(4-6)_11192019
Collected Date/Time: 11/19/2019 09:58
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 17:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	500	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.19
Sample Tag: SB-81-28(7-9)_11192019
Collected Date/Time: 11/19/2019 09:10
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 19:48, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.20
Sample Tag: TW-43-165-7R(1-3)_11202019
Collected Date/Time: 11/20/2019 09:25
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 18:01, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	900	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S09614.21
Sample Tag: SB-40-21(0-2)_11202019
Collected Date/Time: 11/20/2019 10:08
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 20:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.22
Sample Tag: SB-40-22(0-2)_11202019
Collected Date/Time: 11/20/2019 11:15
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 20:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.23
Sample Tag: SB-40-22(2-4)_11202019
Collected Date/Time: 11/20/2019 11:20
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 18:13, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.24
Sample Tag: SB-40-22(4-6)_11202019
Collected Date/Time: 11/20/2019 11:25
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/02/19 18:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09614.25
Sample Tag: SB-84-66(0-2)_11202019
Collected Date/Time: 11/20/2019 11:58
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 08:25, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	4,530	820		ug/kg	30	83-32-9	X
Acenaphthylene	Not detected	820		ug/kg	30	208-96-8	X
Anthracene	9,440	820		ug/kg	30	120-12-7	X
Benzo(a)anthracene	29,820	820		ug/kg	30	56-55-3	X
Benzo(b)fluoranthene	31,630	820		ug/kg	30	205-99-2	X
Benzo(k)fluoranthene	33,190	820		ug/kg	30	207-08-9	X
Benzo(ghi)perylene	9,440	820		ug/kg	30	191-24-2	X
Benzo(a)pyrene	29,660	820		ug/kg	30	50-32-8	X
bis(2-Chloroethoxy)methane	Not detected	820		ug/kg	30	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	820		ug/kg	30	111-44-4	X
bis(2-Chloroisopropyl)ether*	Not detected	820		ug/kg	30	108-60-1	X
bis(2-Ethylhexyl)phthalate	Not detected	820		ug/kg	30	117-81-7	X
4-Bromophenyl phenyl ether	Not detected	820		ug/kg	30	101-55-3	X
Butyl benzyl phthalate	Not detected	820		ug/kg	30	85-68-7	X
4-Chloroaniline	Not detected	820		ug/kg	30	106-47-8	X
2-Chloronaphthalene	Not detected	820		ug/kg	30	91-58-7	X
4-Chloro-3-methylphenol	Not detected	820		ug/kg	30	59-50-7	X
2-Chlorophenol	Not detected	820		ug/kg	30	95-57-8	X
4-Chlorophenyl phenyl ether	Not detected	820		ug/kg	30	7005-72-3	X
Chrysene	30,390	820		ug/kg	30	218-01-9	X
3-, 4-Methylphenol (p,m-Cresol)	Not detected	820		ug/kg	30	3/4-CRESOL	X
2-Methylphenol (o-Cresol)	Not detected	820		ug/kg	30	95-48-7	X
Dibenzo(ah)anthracene	2,650	820		ug/kg	30	53-70-3	X
Dibenzofuran	1,650	820		ug/kg	30	132-64-9	X
di-n-Butyl phthalate	Not detected	820		ug/kg	30	84-74-2	X
1,2-Dichlorobenzene*	Not detected	820		ug/kg	30	95-50-1	X
1,3-Dichlorobenzene	Not detected	820		ug/kg	30	541-73-1	X
1,4-Dichlorobenzene	Not detected	820		ug/kg	30	106-46-7	X
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	30	91-94-1	
2,4-Dichlorophenol	Not detected	820		ug/kg	30	120-83-2	X
Diethyl phthalate	Not detected	820		ug/kg	30	84-66-2	X

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S09614.25 (continued)
Sample Tag: SB-84-66(0-2)_11202019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 08:25, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,4-Dimethylphenol	Not detected	820		ug/kg	30	105-67-9	X
Dimethyl phthalate	Not detected	820		ug/kg	30	131-11-3	X
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	30	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	30	51-28-5	
2,4-Dinitrotoluene	Not detected	820		ug/kg	30	121-14-2	X
2,6-Dinitrotoluene	Not detected	820		ug/kg	30	606-20-2	X
1,2-Diphenylhydrazine	Not detected	820		ug/kg	30	122-66-7	X
di-n-Octyl phthalate	Not detected	820		ug/kg	30	117-84-0	X
Fluoranthene	67,240	820		ug/kg	30	206-44-0	X
Fluorene	3,610	820		ug/kg	30	86-73-7	X
Hexachlorobenzene	Not detected	820		ug/kg	30	118-74-1	X
Hexachlorobutadiene	Not detected	820		ug/kg	30	87-68-3	X
Hexachlorocyclopentadiene	Not detected	820		ug/kg	30	77-47-4	X
Hexachloroethane	Not detected	820		ug/kg	30	67-72-1	X
Indeno(1,2,3-cd)pyrene	9,790	820		ug/kg	30	193-39-5	X
Isophorone	Not detected	820		ug/kg	30	78-59-1	X
2-Methylnaphthalene	Not detected	820		ug/kg	30	91-57-6	X
Naphthalene	1,090	820		ug/kg	30	91-20-3	X
2-Nitroaniline	Not detected	830		ug/kg	30	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	30	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	30	100-01-6	
Nitrobenzene	Not detected	820		ug/kg	30	98-95-3	X
2-Nitrophenol	Not detected	820		ug/kg	30	88-75-5	X
4-Nitrophenol	Not detected	830		ug/kg	30	100-02-7	
N-Nitrosodiphenylamine	Not detected	820		ug/kg	30	86-30-6	X
N-Nitrosodi-n-propylamine	Not detected	820		ug/kg	30	621-64-7	X
Pentachlorophenol	Not detected	820		ug/kg	30	87-86-5	X
Phenanthrene	38,480	820		ug/kg	30	85-01-8	X
Phenol	Not detected	820		ug/kg	30	108-95-2	X
Pyrene	56,520	820		ug/kg	30	129-00-0	X
1,2,4-Trichlorobenzene	Not detected	820		ug/kg	30	120-82-1	X
2,4,5-Trichlorophenol	Not detected	820		ug/kg	30	95-95-4	X
2,4,6-Trichlorophenol	Not detected	820		ug/kg	30	88-06-2	X

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S09614.26
Sample Tag: SB-84-66(2-4)_11202019
Collected Date/Time: 11/20/2019 12:10
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
BNA Extraction*	Completed	SW3546	11/22/19 17:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 03:47, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330		ug/kg	7.5	83-32-9	
Acenaphthylene	Not detected	330		ug/kg	7.5	208-96-8	
Anthracene	Not detected	330		ug/kg	7.5	120-12-7	
Benzo(a)anthracene	Not detected	330		ug/kg	7.5	56-55-3	
Benzo(b)fluoranthene	Not detected	330		ug/kg	7.5	205-99-2	
Benzo(k)fluoranthene	Not detected	330		ug/kg	7.5	207-08-9	
Benzo(ghi)perylene	Not detected	330		ug/kg	7.5	191-24-2	
Benzo(a)pyrene	Not detected	330		ug/kg	7.5	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	330		ug/kg	7.5	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330		ug/kg	7.5	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330		ug/kg	7.5	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	330		ug/kg	7.5	117-81-7	
4-Bromophenyl phenyl ether	Not detected	330		ug/kg	7.5	101-55-3	
Butyl benzyl phthalate	Not detected	330		ug/kg	7.5	85-68-7	
4-Chloroaniline	Not detected	330		ug/kg	7.5	106-47-8	
2-Chloronaphthalene	Not detected	330		ug/kg	7.5	91-58-7	
4-Chloro-3-methylphenol	Not detected	280		ug/kg	7.5	59-50-7	
2-Chlorophenol	Not detected	330		ug/kg	7.5	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	330		ug/kg	7.5	7005-72-3	
Chrysene	Not detected	330		ug/kg	7.5	218-01-9	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330		ug/kg	7.5	3/4-CRESOL	
2-Methylphenol (o-Cresol)	Not detected	330		ug/kg	7.5	95-48-7	
Dibenzo(ah)anthracene	Not detected	330		ug/kg	7.5	53-70-3	
Dibenzofuran	Not detected	330		ug/kg	7.5	132-64-9	
di-n-Butyl phthalate	Not detected	330		ug/kg	7.5	84-74-2	
1,2-Dichlorobenzene*	Not detected	330		ug/kg	7.5	95-50-1	
1,3-Dichlorobenzene	Not detected	330		ug/kg	7.5	541-73-1	
1,4-Dichlorobenzene	Not detected	330		ug/kg	7.5	106-46-7	
3,3'-Dichlorobenzidine	Not detected	2,000		ug/kg	7.5	91-94-1	
2,4-Dichlorophenol	Not detected	330		ug/kg	7.5	120-83-2	
Diethyl phthalate	Not detected	330		ug/kg	7.5	84-66-2	
2,4-Dimethylphenol	Not detected	330		ug/kg	7.5	105-67-9	

Lab Sample ID: S09614.26 (continued)
Sample Tag: SB-84-66(2-4)_11202019

Semi-Volatile Organics - MDEQ, Method: SW8270D, Run Date: 11/26/19 03:47, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dimethyl phthalate	Not detected	330		ug/kg	7.5	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	830		ug/kg	7.5	534-52-1	
2,4-Dinitrophenol	Not detected	830		ug/kg	7.5	51-28-5	
2,4-Dinitrotoluene	Not detected	330		ug/kg	7.5	121-14-2	
2,6-Dinitrotoluene	Not detected	330		ug/kg	7.5	606-20-2	
1,2-Diphenylhydrazine	Not detected	330		ug/kg	7.5	122-66-7	
di-n-Octyl phthalate	Not detected	330		ug/kg	7.5	117-84-0	
Fluoranthene	Not detected	330		ug/kg	7.5	206-44-0	
Fluorene	Not detected	330		ug/kg	7.5	86-73-7	
Hexachlorobenzene	Not detected	330		ug/kg	7.5	118-74-1	
Hexachlorobutadiene	Not detected	330		ug/kg	7.5	87-68-3	
Hexachlorocyclopentadiene	Not detected	330		ug/kg	7.5	77-47-4	
Hexachloroethane	Not detected	330		ug/kg	7.5	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	330		ug/kg	7.5	193-39-5	
Isophorone	Not detected	330		ug/kg	7.5	78-59-1	
2-Methylnaphthalene	Not detected	330		ug/kg	7.5	91-57-6	
Naphthalene	Not detected	330		ug/kg	7.5	91-20-3	
2-Nitroaniline	Not detected	830		ug/kg	7.5	88-74-4	
3-Nitroaniline	Not detected	830		ug/kg	7.5	99-09-2	
4-Nitroaniline	Not detected	830		ug/kg	7.5	100-01-6	
Nitrobenzene	Not detected	330		ug/kg	7.5	98-95-3	
2-Nitrophenol	Not detected	330		ug/kg	7.5	88-75-5	
4-Nitrophenol	Not detected	830		ug/kg	7.5	100-02-7	
N-Nitrosodiphenylamine	Not detected	330		ug/kg	7.5	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	330		ug/kg	7.5	621-64-7	
Pentachlorophenol	Not detected	330		ug/kg	7.5	87-86-5	
Phenanthrene	Not detected	330		ug/kg	7.5	85-01-8	
Phenol	Not detected	330		ug/kg	7.5	108-95-2	
Pyrene	Not detected	330		ug/kg	7.5	129-00-0	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	7.5	120-82-1	
2,4,5-Trichlorophenol	Not detected	330		ug/kg	7.5	95-95-4	
2,4,6-Trichlorophenol	Not detected	330		ug/kg	7.5	88-06-2	

Lab Sample ID: S09614.27
Sample Tag: SB-94-05A(1-3)_11202019
Collected Date/Time: 11/20/2019 14:08
Matrix: Soil
COC Reference: 114809

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 10:20	CCM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 12:38, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	15.9	0.30		mg/kg	244	7439-92-1	

Lab Sample ID: S09614.28
Sample Tag: SB-94-06(1-3)_11202019
Collected Date/Time: 11/20/2019 14:15
Matrix: Soil
COC Reference: 114804

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 10:20	CCM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 12:40, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	124	0.30		mg/kg	242	7439-92-1	

Lab Sample ID: S09614.29
Sample Tag: SB-94-07A(1-3)_11202019
Collected Date/Time: 11/20/2019 14:15
Matrix: Soil
COC Reference: 114804

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 10:20	CCM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 12:47, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	587	15.0		mg/kg	11100	7439-92-1	

Lab Sample ID: S09614.30
Sample Tag: SB-94-06(3-5)_11202019
Collected Date/Time: 11/20/2019 14:15
Matrix: Soil
COC Reference: 114804

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 10:20	CCM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 12:36, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	1.52	0.30		mg/kg	247	7439-92-1	

Lab Sample ID: S09614.31
Sample Tag: SB-40-21(4-6)_11202019
Collected Date/Time: 11/20/2019 10:30
Matrix: Soil
COC Reference: 114804

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Lab Sample ID: S09614.32
Sample Tag: SB-40-21(2-4)_11202019
Collected Date/Time: 11/20/2019 10:40
Matrix: Soil
COC Reference: 114804

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/19 10:30	CM	

Inorganics

Method: SM2540B, Run Date: 11/22/19 15:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Merit Laboratories Login Checklist

Lab Set ID: S09614
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30006800.01904 Buick City
Submitted: 11/22/2019 08:15 Login User: MMC

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 2.4
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[X] Yes	[ ] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[X] No	[ ] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

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Phone (517) 332-0167 Fax (517) 332-4034
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C.O.C. PAGE # 1 OF 4

114803

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Erin Kozak, Megan Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Drive Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904 Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	SVOCs	Lead	Special Instructions
09614.01	11-21-19	9:10	EP_94_02AR(as-2.5).11212019	S	1	X							X			
.02	11-21-19	10:00	SB_FEP_20(0-2).11212019												X	5 day TAT
.03	11-21-19	10:10	SB_FEP_20(2-4).11212019												X	5 day TAT
.04	11-21-19	10:15	SB_FEP_20(4-6).11212019												X	5 day TAT

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Amanda Prueks	☐ Sampler	DATE: 11-21-19	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION: Merit Drop Box		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION: Merit Drop Box		DATE: 11/22/19	TIME: 0815
RECEIVED BY: SIGNATURE/ORGANIZATION: M Allcott		DATE: 11/22/19	TIME: 0815

RELINQUISHED BY: SIGNATURE/ORGANIZATION:		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION:		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL: 2.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 2 OF 4

116789

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Erin Kozak, Megan Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr. Suite 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO. | FAX NO. | P.O. NO.
E-MAIL ADDRESS | QUOTE NO.

INVOICE TO

CONTACT NAME | ☐ SAME
COMPANY
ADDRESS
CITY | STATE | ZIP CODE
PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME: 30006800.0904 Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	SVOCs
09614.05	11-19-19	3:28	SB_83/84-45(0-2).11192019	S	1	X								X
.06	11-19-19	3:32	SB_83/84-45(8-10).11192019											X
.07	11-19-19	2:20	SB_81_32(0-2).11192019										X	
.08	11-19-19	2:40	SB_81_32(2-4).11192019										X	
.09	11-19-19	1:55	SB_03-03_03(1-3).11192019										X	
.10	11-19-19	2:05	SB_03_03_03(8-10).11192019										X	
.11	11-19-19	1:38	SB_03_07(1-3).11192019											X
.12	11-19-19	1:48	SB_03_07(8-10).11192019											X
.13	11-19-19	1:15	SB_03_09(1-3).11192019											X
.14	11-19-19	1:20	SB_03_09(8-10).11192019											X
.15	11-19-19	12:55	SB_03_08(1-3).11192019										X	X
.16	11-19-19	1:10	SB_03_08(8-10).11192019										X	X

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Amanda Pruehs ☐ Sampler | DATE: 1-21-19 | TIME: 440
RECEIVED BY: SIGNATURE/ORGANIZATION: Merit Drop Box | DATE | TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION: Merit Drop Box | DATE: 11/22/19 | TIME: 0815
RECEIVED BY: SIGNATURE/ORGANIZATION: M Allcock | DATE: 11/22/19 | TIME: 0815

RELINQUISHED BY: SIGNATURE/ORGANIZATION | DATE | TIME
RECEIVED BY: SIGNATURE/ORGANIZATION | DATE | TIME

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: TEMP. ON ARRIVAL 2.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 3 OF 4

114809

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Erin Kozak, Megan Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Drive Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904 Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	SVOCs	Lead
	~~11-19-19~~		~~SB-81-33(0-2). 11192019~~	S	1	X							X		
0964.17	11-19-19	9:48	SB-81-33(2-4). 11192019										X		
.18	11-19-19	9:58	SB-81-33(4-6). 11192019										X		
.19	11-19-19	9:10	SB-81-28(7-9). 11192019										X		
.20	11-20-19	9:25	TW-43-165-7R(1-3). 11202019										X		
.21	11-20-19	10:08	SB-40-21(0-2). 11202019										X		
.22	11-20-19	11:15	SB-40-22(0-2). 11202019										X		
.23	11-20-19	11:20	SB-40-22(2-4). 11202019										X		
.24	11-20-19	11:25	SB-40-22(4-6). 11202019										X		
.25	11-20-19	11:58	SB-84-16(0-2). 11202019											X	
.26	11-20-19	12:10	SB-84-16(2-4). 11202019											X	
27	11-20-19	2:08	SB-94-05(1-3). 11202019	↓	↓	↓									X

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Amanda Powers	☐ Sampler	DATE: 11-21-19	TIME: 4:40
RECEIVED BY: SIGNATURE/ORGANIZATION: Merit Drop Box		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION: Merit Drop Box		DATE: 11/22/19	TIME: 0815
RECEIVED BY: SIGNATURE/ORGANIZATION: M Calcott		DATE: 11/22/19	TIME: 0815

RELINQUISHED BY: SIGNATURE/ORGANIZATION:		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION:		DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

NOTES: TEMP. ON ARRIVAL: 2.4

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114804

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Erin Kozak, Megan Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Drive Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	SVOCs	Lead
09614.28	11-20-19	2:15	SB_94-06(1-3).11202019	S	1	X									X
.29	11-20-19	2:15	SB_94-07(1-3).11202019												X
.30	11-20-19	2:15	SB_94-06(3-5).11202019												X
.31	11-20-19	10:30	SB_40-21(4-6).11202019										X		
.32	11-20-19	10:40	SB_40-21(7-9).11202019										X		

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Amanda Powers	☐ Sampler	DATE: 11-21-19	TIME: 4:40
RECEIVED BY: SIGNATURE/ORGANIZATION: Merit Drop Box		DATE:	TIME:
RELINQUISHED BY: SIGNATURE/ORGANIZATION: Merit Drop Box		DATE: 11/22/19	TIME: 0815
RECEIVED BY: SIGNATURE/ORGANIZATION: M Wilcoxon		DATE: 11/22/19	TIME: 0815

RELINQUISHED BY: SIGNATURE/ORGANIZATION:		DATE:	TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION:		DATE:	TIME:

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 2.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Revised Report

Report ID: S09742.01(04)
Generated on 01/20/2020
Replaces report S09742.01(03) generated on 12/19/2019

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S09742.01-S09742.34
Project: 30006800.01904 Buick City
Collected Date(s): 11/21/2019 - 11/25/2019
Submitted Date/Time: 11/26/2019 13:50
Sampled by: Amanda Pruehs
P.O. #: 30006800.01904

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

Sample tags updated per client request

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (34 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S09742.01	SB-81-27A(0-2)_11222019	Soil	11/22/19 14:00
S09742.02	SB-81-27A(3-5)_11222019	Soil	11/22/19 14:15
S09742.03	SB-81-27A(7-9)_11222019	Soil	11/22/19 14:20
S09742.04	SB-81-26A(0-2)_11222019	Soil	11/22/19 14:32
S09742.05	SB-81-26A(3-5)_11222019	Soil	11/22/19 14:35
S09742.06	SB-81-26A(7-9)_11222019	Soil	11/22/19 14:40
S09742.07	SB-12-01(5-7)_11222019	Soil	11/22/19 15:55
S09742.08	SB-12-01(7-9)_11222019	Soil	11/22/19 16:10
S09742.09	SB-12-01(1-3)_11222019	Soil	11/22/19 15:45
S09742.10	DUP-01	Soil	11/22/19 15:00
S09742.11	SB-03-14(0-2)_11222019	Soil	11/22/19 09:20
S09742.12	SB-03-14(2-4)_11222019	Soil	11/22/19 09:32
S09742.13	SB-03-13(0-2)_11222019	Soil	11/22/19 10:08
S09742.14	SB-03-13(2-4)_11222019	Soil	11/22/19 10:18
S09742.15	SB-03-12(0-2)_11222019	Soil	11/22/19 10:30
S09742.16	SB-03-12(2-4)_11222019	Soil	11/22/19 10:42
S09742.17	SB-03-11(0-2)_11222019	Soil	11/22/19 11:30
S09742.18	SB-03-11(2-4)_11222019	Soil	11/22/19 11:46
S09742.19	SB-03-10(0-2)_11222019	Soil	11/22/19 11:55
S09742.20	SB-03-10(2-4)_11222019	Soil	11/22/19 12:07
S09742.21	SB-10-41(1-2)_11252019	Soil	11/25/19 09:40
S09742.22	SB-10-41(2-4)_11252019	Soil	11/25/19 09:45
S09742.23	SB-10-43(1-2)_11252019	Soil	11/25/19 10:40
S09742.24	SB-10-43(2-4)_11252019	Soil	11/25/19 10:45
S09742.25	SB-94-05(1-3)_11252019	Soil	11/25/19 14:10
S09742.26	SB-94-05(3-5)_11252019	Soil	11/25/19 14:15
S09742.27	SB-94-07(1-3)_11252019	Soil	11/25/19 13:45
S09742.28	SB-94-07(3-5)_11252019	Soil	11/25/19 13:50
S09742.29	DUP-04	Soil	11/25/19 10:00
S09742.30	SB-FEP-20A(0-0.5)_11252019	Soil	11/25/19 13:00
S09742.31	DUP-02	Soil	11/22/19 11:00
S09742.32	DUP-03	Soil	11/22/19 13:00
S09742.33	SB-ACSP-1(0-2)_11212019	Soil	11/21/19 12:56
S09742.34	SB-ACSP-02(1-2)_11212019	Soil	11/21/19 13:10

Lab Sample ID: S09742.01
Sample Tag: SB-81-27A(0-2)_11222019
Collected Date/Time: 11/22/2019 14:00
Matrix: Soil
COC Reference: 114808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/27/19 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/04/19 18:18, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09742.02
Sample Tag: SB-81-27A(3-5)_11222019
Collected Date/Time: 11/22/2019 14:15
Matrix: Soil
COC Reference: 114808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/27/19 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/04/19 18:31, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09742.03
Sample Tag: SB-81-27A(7-9)_11222019
Collected Date/Time: 11/22/2019 14:20
Matrix: Soil
COC Reference: 114808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/27/19 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/04/19 18:48, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09742.04
Sample Tag: SB-81-26A(0-2)_11222019
Collected Date/Time: 11/22/2019 14:32
Matrix: Soil
COC Reference: 114808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/03/19 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/05/19 14:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09742.05
Sample Tag: SB-81-26A(3-5)_11222019
Collected Date/Time: 11/22/2019 14:35
Matrix: Soil
COC Reference: 114808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/03/19 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/05/19 13:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	5	12674-11-2	
PCB-1242	Not detected	330		ug/kg	5	53469-21-9	
PCB-1221	Not detected	330		ug/kg	5	11104-28-2	
PCB-1232	Not detected	330		ug/kg	5	11141-16-5	
PCB-1248	Not detected	330		ug/kg	5	12672-29-6	
PCB-1254	Not detected	330		ug/kg	5	11097-69-1	
PCB-1260	Not detected	330		ug/kg	5	11096-82-5	

Lab Sample ID: S09742.06
Sample Tag: SB-81-26A(7-9)_11222019
Collected Date/Time: 11/22/2019 14:40
Matrix: Soil
COC Reference: 114808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/03/19 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/05/19 14:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09742.07
Sample Tag: SB-12-01(5-7)_11222019
Collected Date/Time: 11/22/2019 15:55
Matrix: Soil
COC Reference: 114808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 11:30	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 13:47, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	145	0.50		mg/kg	234	7439-96-5	

Lab Sample ID: S09742.08
Sample Tag: SB-12-01(7-9)_11222019
Collected Date/Time: 11/22/2019 16:10
Matrix: Soil
COC Reference: 114808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 11:30	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 13:49, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	135	0.50		mg/kg	236	7439-96-5	

Lab Sample ID: S09742.09
Sample Tag: SB-12-01(1-3)_11222019
Collected Date/Time: 11/22/2019 15:45
Matrix: Soil
COC Reference: 114808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 11:30	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	95	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 13:52, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	150	0.50		mg/kg	212	7439-96-5	

Lab Sample ID: S09742.10
Sample Tag: DUP-01
Collected Date/Time: 11/22/2019 15:00
Matrix: Soil
COC Reference: 114808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 11:30	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 13:54, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	106	0.50		mg/kg	254	7439-96-5	

Lab Sample ID: S09742.11
Sample Tag: SB-03-14(0-2)_11222019
Collected Date/Time: 11/22/2019 09:20
Matrix: Soil
COC Reference: 114805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 11:30	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 13:57, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	200	0.50		mg/kg	237	7439-96-5	

Lab Sample ID: S09742.12
Sample Tag: SB-03-14(2-4)_11222019
Collected Date/Time: 11/22/2019 09:32
Matrix: Soil
COC Reference: 114805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 11:30	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 14:12, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	28.0	0.50		mg/kg	217	7439-96-5	

Lab Sample ID: S09742.13
Sample Tag: SB-03-13(0-2)_11222019
Collected Date/Time: 11/22/2019 10:08
Matrix: Soil
COC Reference: 114805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 11:30	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 14:19, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	674	25.0		mg/kg	12900	7439-96-5	

Lab Sample ID: S09742.14
Sample Tag: SB-03-13(2-4)_11222019
Collected Date/Time: 11/22/2019 10:18
Matrix: Soil
COC Reference: 114805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 11:30	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 14:21, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	208	0.50		mg/kg	232	7439-96-5	

Lab Sample ID: S09742.15
Sample Tag: SB-03-12(0-2)_11222019
Collected Date/Time: 11/22/2019 10:30
Matrix: Soil
COC Reference: 114805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 11:30	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 14:24, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	179	0.50		mg/kg	237	7439-96-5	

Lab Sample ID: S09742.16
Sample Tag: SB-03-12(2-4)_11222019
Collected Date/Time: 11/22/2019 10:42
Matrix: Soil
COC Reference: 114805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 11:30	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 14:26, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	164	0.50		mg/kg	235	7439-96-5	

Lab Sample ID: S09742.17
Sample Tag: SB-03-11(0-2)_11222019
Collected Date/Time: 11/22/2019 11:30
Matrix: Soil
COC Reference: 114805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 11:30	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 14:29, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	55.7	0.50		mg/kg	232	7439-96-5	

Lab Sample ID: S09742.18
Sample Tag: SB-03-11(2-4)_11222019
Collected Date/Time: 11/22/2019 11:46
Matrix: Soil
COC Reference: 114805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 11:30	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 14:31, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	98.1	0.50		mg/kg	260	7439-96-5	

Lab Sample ID: S09742.19
Sample Tag: SB-03-10(0-2)_11222019
Collected Date/Time: 11/22/2019 11:55
Matrix: Soil
COC Reference: 114805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 11:30	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 14:40, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	2,930	25.0		mg/kg	11400	7439-96-5	

Lab Sample ID: S09742.20
Sample Tag: SB-03-10(2-4)_11222019
Collected Date/Time: 11/22/2019 12:07
Matrix: Soil
COC Reference: 114805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	n/a	n/a	Yes	n/a	n/a

Other / Misc.

Method: , Run Date: 12/02/19 09:15, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
No Analyses*	Completed				1		

Lab Sample ID: S09742.21
Sample Tag: SB-10-41(1-2)_11252019
Collected Date/Time: 11/25/2019 09:40
Matrix: Soil
COC Reference: 114806

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 11:30	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	92	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 14:42, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	819	0.50		mg/kg	213	7439-96-5	

Lab Sample ID: S09742.22
Sample Tag: SB-10-41(2-4)_11252019
Collected Date/Time: 11/25/2019 09:45
Matrix: Soil
COC Reference: 114806

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 11:30	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 14:46, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	315	0.50		mg/kg	231	7439-96-5	

Lab Sample ID: S09742.23
Sample Tag: SB-10-43(1-2)_11252019
Collected Date/Time: 11/25/2019 10:40
Matrix: Soil
COC Reference: 114806

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 12:40	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 14:59, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	604	0.50		mg/kg	225	7439-96-5	

Lab Sample ID: S09742.24
Sample Tag: SB-10-43(2-4)_11252019
Collected Date/Time: 11/25/2019 10:45
Matrix: Soil
COC Reference: 114806

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 12:40	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 15:03, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	474	0.50		mg/kg	223	7439-96-5	

Lab Sample ID: S09742.25
Sample Tag: SB-94-05(1-3)_11252019
Collected Date/Time: 11/25/2019 14:10
Matrix: Soil
COC Reference: 114806

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 12:40	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 15:05, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	3.92	0.30		mg/kg	225	7439-92-1	

Lab Sample ID: S09742.26
Sample Tag: SB-94-05(3-5)_11252019
Collected Date/Time: 11/25/2019 14:15
Matrix: Soil
COC Reference: 114806

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 12:40	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 15:08, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	3.64	0.30		mg/kg	220	7439-92-1	

Lab Sample ID: S09742.27
Sample Tag: SB-94-07(1-3)_11252019
Collected Date/Time: 11/25/2019 13:45
Matrix: Soil
COC Reference: 114806

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 12:40	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 15:10, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	4.62	0.30		mg/kg	234	7439-92-1	

Lab Sample ID: S09742.28
Sample Tag: SB-94-07(3-5)_11252019
Collected Date/Time: 11/25/2019 13:50
Matrix: Soil
COC Reference: 114806

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 12:40	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 15:13, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	5.73	0.30		mg/kg	237	7439-92-1	

Lab Sample ID: S09742.29
Sample Tag: DUP-04
Collected Date/Time: 11/25/2019 10:00
Matrix: Soil
COC Reference: 114806

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 12:40	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 15:15, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	694	0.50		mg/kg	224	7439-96-5	

Lab Sample ID: S09742.30
Sample Tag: SB-FEP-20A(0-0.5)_11252019
Collected Date/Time: 11/25/2019 13:00
Matrix: Soil
COC Reference: 114806

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 12:40	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 15:17, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	55.0	0.30		mg/kg	216	7439-92-1	

Lab Sample ID: S09742.31
Sample Tag: DUP-02
Collected Date/Time: 11/22/2019 11:00
Matrix: Soil
COC Reference: 114806

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/03/19 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/05/19 14:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	5	12674-11-2	
PCB-1242	Not detected	330		ug/kg	5	53469-21-9	
PCB-1221	Not detected	330		ug/kg	5	11104-28-2	
PCB-1232	Not detected	330		ug/kg	5	11141-16-5	
PCB-1248	Not detected	330		ug/kg	5	12672-29-6	
PCB-1254	Not detected	330		ug/kg	5	11097-69-1	
PCB-1260	Not detected	330		ug/kg	5	11096-82-5	

Lab Sample ID: S09742.32
Sample Tag: DUP-03
Collected Date/Time: 11/22/2019 13:00
Matrix: Soil
COC Reference: 114806

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/03/19 12:40	CCM	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/03/19 15:20, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	203	0.50		mg/kg	233	7439-96-5	

Lab Sample ID: S09742.33
Sample Tag: SB-ACSP-1(0-2)_11212019
Collected Date/Time: 11/21/2019 12:56
Matrix: Soil
COC Reference: 114807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/03/19 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/05/19 14:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09742.34
Sample Tag: SB-ACSP-02(1-2)_11212019
Collected Date/Time: 11/21/2019 13:10
Matrix: Soil
COC Reference: 114807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/03/19 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 11/27/19 10:10, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/05/19 14:37, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S09742
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30006800.01904 Buick City
Submitted: 11/26/2019 13:50 Login User: MMC

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.9
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 4

114808

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Michi Maki, Erin Kozak, Megan Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr. Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30061800.01904 Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Amanda Pruehs

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Manganese	PCBs
09742.01	11-22-19	2:00	SB-81-27A(0-2).11222019	S	1	X								X
.02	11-22-19	2:15	SB-81-27A(3-5).11222019											X
.03	11-22-19	2:20	SB-81-27A(7-9).11222019											X
.04	11-22-19	2:32	SB-81-26A(0-2).11222019											X
.05	11-22-19	2:35	SB-81-26A(3-5).11222019											X
.06	11-22-19	2:40	SB-81-26A(7-9).11222019											X
														X
	~~11-22-19~~	~~3:45~~	~~SB-12-01(1-3).11222019~~										X	
.07	11-22-19	3:55	SB-12-01(5-7).11222019										X	
.08	11-22-19	4:10	SB-12-01(7-9).11222019										X	
.09	11-22-19	3:45	SB-12-01(1-3)_11222019	↓	↓	↓							X	
.10	11-22-19	3:00	DUP-01	X	X	X							X	X

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Amanda Pruehs / Arcadis ☒ Sampler	DATE: 11-26-19	TIME: 1115	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE: 11-26-19	TIME: 1115	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE: 11-26-19	TIME: 1320	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE: 11/26/19	TIME: 1350	

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL: 3.9

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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C.O.C. PAGE # 2 OF 4

114805

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Erin Kozak, Megan Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr. Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904 Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Amanda Pruehs

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Manganese	No Sample/ No Analysis (TO)
09742.11	11-22-19	9:20	SB-03-14(0-2).11222019	S	1	X							X	
.12	11-22-19	9:32	SB-03-14(2-4).11222019										X	
.13	11-22-19	10:08	SB-03-13(0-2).11222019										X	
.14	11-22-19	10:18	SB-03-13(2-4).11222019										X	
			~~SB-03-14(0-2).11222019~~											
			~~SB-03-14(2-4).11222019~~											
.15	11-22-19	10:30	SB-03-12(0-2).11222019										X	
.16	11-22-19	10:42	SB-03-12(2-4).11222019										X	
.17	11-22-19	11:30	SB-03-11(0-2).11222019										X	
.18	11-22-19	11:46	SB-03-11(2-4).11222019										X	
.19	11-22-19	11:55	SB-03-10(0-2).11222019										X	
.20	~~11-22-19~~	~~12:07~~	~~SB-03-10(2-4).11222019~~										X	X

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Amanda Pruehs — Sampler — DATE: 11-26-19 TIME: 1115
RECEIVED BY: SIGNATURE/ORGANIZATION: — DATE — TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION: — DATE: 11/26/19 TIME: 1350
RECEIVED BY: SIGNATURE/ORGANIZATION: M Abcal — DATE: 11/26/19 TIME: 1350

RELINQUISHED BY: SIGNATURE/ORGANIZATION: — DATE: 11-26-19 TIME: 11:5
RECEIVED BY: SIGNATURE/ORGANIZATION: MB — DATE: 11-26-19 TIME: 11:5

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL: 3.9

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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www.meritlabs.com

C.O.C. PAGE # 3 OF 4

114806

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Erin Kozak / Megan Humphrey / Micki Maki
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Joey Berner

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Manganese	Lead	PCBs	Special Instructions
09742.21	11-25-19	0940	SB-10-41 (0-2)_11252019	S	1	X							X			
.22	11-25-19	0945	SB-10-41 (2-4)_11252019										X			
.23	11-25-19	1040	SB-10-43 (0-2)_11252019										X			
.24	11-25-19	1045	SB-10-43 (2-4)_11252019										X			
.25	11-25-19	1410	SB-94-03 (1-3)_11252019										X	X		
.26	11-25-19	1415	SB-94-05 (3-5)_11252019											X		
.27	11-25-19	1345	SB-94-07 (1-3)_11252019											X		
.28	11-25-19	1350	SB-94-07 (3-5)_11252019											X		
.29	11-25-19	1000	DUP-04										X			
.30	11-25-19	1300	SB-FEP-20A (0-0.5)_11252019	↓	↓	↓								X		5 DAY TAT
.31	11-22-19	1100	DUP-02	X	X	X									X	
.32	11-22-19	1:00	DUP-03	X	X	X							X		X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION ☐ Sampler DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION 11-26-19 DATE 1350 TIME
RECEIVED BY: SIGNATURE/ORGANIZATION 11/26/19 DATE 1350 TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION 11-26-19 DATE 1115 TIME
RECEIVED BY: SIGNATURE/ORGANIZATION 11/26/19 DATE 1115 TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.9

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 4 OF 4

114807

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Erin Kozak, Megan Humphrey, Micki Maki
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr. Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904 Burk City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Amanda Pruehs

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
09742.33	11-21-19	12:56	SB-ACSP-01(S-2)-11212019	S	1	X							+
.34	11-21-19	1:10	SB-ACSP-02(1-2)-11212019	S	1	X							+

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Amanda Pruehs ☒ Sampler DATE: 11-26-19 TIME: 1115
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: 11-26-19 TIME: 1410
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: 11-26-19 TIME: 1115

RELINQUISHED BY: SIGNATURE/ORGANIZATION: M Ailcott DATE: 11-26-19 TIME: 1500
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: 11/26/19 TIME: 1350

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.9

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S09912.01(01)
Generated on 12/13/2019

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Report produced by

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East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki, Joey Barker

Report Summary

Lab Sample ID(s): S09912.01-S09912.49
Project: 30006800.01904 Buick City
Collected Date(s): 12/01/2019 - 12/02/2019
Submitted Date/Time: 12/03/2019 15:10
Sampled by: Caitlin Cisco
P.O. #: 30006800.01904

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (49 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S09912.01	SB-10-34(8-10)_12012019	Soil	12/01/19 13:05
S09912.02	SB-10-34(10-12)_12012019	Soil	12/01/19 13:07
S09912.03	SB-10-34(12-14)_12012019	Soil	12/01/19 13:09
S09912.04	SB-10-34(14-16)_12012019	Soil	12/01/19 13:11
S09912.05	SB-10-35(8-10)_12012019	Soil	12/01/19 13:58
S09912.06	SB-10-35(10-12)_12012019	Soil	12/01/19 14:00
S09912.07	SB-10-35(12-14)_12012019	Soil	12/01/19 14:02
S09912.08	SB-10-35(14-17)_12012019	Soil	12/01/19 14:04
S09912.09	SB-10-36(1-3)_12012019	Soil	12/01/19 14:50
S09912.10	SB-10-36(4-6)_12012019	Soil	12/01/19 14:52
S09912.11	SB-10-36(6-8)_12012019	Soil	12/01/19 14:54
S09912.12	SB-10-36(8-10)_12012019	Soil	12/01/19 14:56
S09912.13	SB-10-36(10-12)_12012019	Soil	12/01/19 14:58
S09912.14	SB-10-37(1-3)_12012019	Soil	12/01/19 15:48
S09912.15	SB-10-37(4-6)_12012019	Soil	12/01/19 15:50
S09912.16	SB-10-37(6-8)_12012019	Soil	12/01/19 15:52
S09912.17	SB-10-37(8-10)_12012019	Soil	12/01/19 15:54
S09912.18	SB-10-37(10-13)_12012019	Soil	12/01/19 15:56
S09912.19	SB-10-38(1-3)_12012019	Soil	12/01/19 16:30
S09912.20	SB-10-38(4-6)_12012019	Soil	12/01/19 16:32
S09912.21	SB-10-38(6-8)_12012019	Soil	12/01/19 16:34
S09912.22	SB-10-38(8-10)_12012019	Soil	12/01/19 16:36
S09912.23	SB-10-38(10-14)_12012019	Soil	12/01/19 16:38
S09912.24	DUP-01_12012019	Soil	12/01/19 00:01
S09912.25	SB-DH-RW-1-20(5-7)_12022019	Soil	12/02/19 09:30
S09912.26	SB-DH-RW-1-20(9-11)_12022019	Soil	12/02/19 09:32
S09912.27	SB-DH-RW-1-20(13-15)_12022019	Soil	12/02/19 09:34
S09912.28	SB-DH-RW-1-21(5-7)_12022019	Soil	12/02/19 10:02
S09912.29	SB-DH-RW-1-21(9-11)_12022019	Soil	12/02/19 10:04
S09912.30	SB-DH-RW-1-21(13-15)_12022019	Soil	12/02/19 10:06
S09912.31	SB-DH-RW-1-22(5-7)_12022019	Soil	12/02/19 10:36
S09912.32	SB-DH-RW-1-22(9-11)_12022019	Soil	12/02/19 10:38
S09912.33	SB-DH-RW-1-22(9-11)_12022019 MS	Soil	12/02/19 10:38
S09912.34	SB-DH-RW-1-22(9-11)_12022019 MSD	Soil	12/02/19 10:38
S09912.35	SB-DH-RW-1-22(13-15)_12022019	Soil	12/02/19 10:40
S09912.36	SB-DH-RW-1-23(5-7)_12022019	Soil	12/02/19 11:12
S09912.37	SB-DH-RW-1-23(9-11)_12022019	Soil	12/02/19 11:14
S09912.38	SB-DH-RW-1-23(13-15)_12022019	Soil	12/02/19 11:16
S09912.39	SB-DH-RW-1-23(13-15)_12022019 MS	Soil	12/02/19 11:16
S09912.40	SB-DH-RW-1-23(13-15)_12022019 MSD	Soil	12/02/19 11:16
S09912.41	DUP-02_12022019	Soil	12/02/19 00:01
S09912.42	SB-DH-RW-3-55(9-11)_12022019	Soil	12/02/19 12:34
S09912.43	SB-DH-RW-3-55(11-13)_12022019	Soil	12/02/19 12:36
S09912.44	SB-DH-RW-3-55(13-15)_12022019	Soil	12/02/19 12:38
S09912.45	SB-DH-RW-3-55(15-17)_12022019	Soil	12/02/19 12:40
S09912.46	SB-DH-RW-3-55(17-19)_12022019	Soil	12/02/19 12:42
S09912.47	SB-DH-RW-1-19(8-10)_12022019	Soil	12/02/19 13:12
S09912.48	SB-DH-RW-1-19(12-14)_12022019	Soil	12/02/19 13:14
S09912.49	SB-DH-RW-1-19(16-18)_12022019	Soil	12/02/19 13:16

Analytical Laboratory Report

Lab Sample ID: S09912.01
Sample Tag: SB-10-34(8-10)_12012019
Collected Date/Time: 12/01/2019 13:05
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 19:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.02
Sample Tag: SB-10-34(10-12)_12012019
Collected Date/Time: 12/01/2019 13:07
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 19:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.03
Sample Tag: SB-10-34(12-14)_12012019
Collected Date/Time: 12/01/2019 13:09
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 19:46, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.04
Sample Tag: SB-10-34(14-16)_12012019
Collected Date/Time: 12/01/2019 13:11
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 19:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09912.05
Sample Tag: SB-10-35(8-10)_12012019
Collected Date/Time: 12/01/2019 13:58
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	94	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 20:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.06
Sample Tag: SB-10-35(10-12)_12012019
Collected Date/Time: 12/01/2019 14:00
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	95	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 20:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.07
Sample Tag: SB-10-35(12-14)_12012019
Collected Date/Time: 12/01/2019 14:02
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 20:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.08
Sample Tag: SB-10-35(14-17)_12012019
Collected Date/Time: 12/01/2019 14:04
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 20:45, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.09
Sample Tag: SB-10-36(1-3)_12012019
Collected Date/Time: 12/01/2019 14:50
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 20:57, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.10
Sample Tag: SB-10-36(4-6)_12012019
Collected Date/Time: 12/01/2019 14:52
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 21:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.11
Sample Tag: SB-10-36(6-8)_12012019
Collected Date/Time: 12/01/2019 14:54
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 21:20, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.12
Sample Tag: SB-10-36(8-10)_12012019
Collected Date/Time: 12/01/2019 14:56
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 21:32, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	360	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.13
Sample Tag: SB-10-36(10-12)_12012019
Collected Date/Time: 12/01/2019 14:58
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 21:44, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	360	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.14
Sample Tag: SB-10-37(1-3)_12012019
Collected Date/Time: 12/01/2019 15:48
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 21:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.15
Sample Tag: SB-10-37(4-6)_12012019
Collected Date/Time: 12/01/2019 15:50
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 22:08, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09912.16
Sample Tag: SB-10-37(6-8)_12012019
Collected Date/Time: 12/01/2019 15:52
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	75	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/12/19 19:46, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	700		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	700		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	700		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	700		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	700		ug/kg	100	12672-29-6	Y
PCB-1254	3,000	700		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	700		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S09912.17
Sample Tag: SB-10-37(8-10)_12012019
Collected Date/Time: 12/01/2019 15:54
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 18:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	500	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.18
Sample Tag: SB-10-37(10-13)_12012019
Collected Date/Time: 12/01/2019 15:56
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 22:20, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09912.19
Sample Tag: SB-10-38(1-3)_12012019
Collected Date/Time: 12/01/2019 16:30
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/12/19 19:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	11,000		ug/kg	2000	12674-11-2	Y
PCB-1242	Not detected	11,000		ug/kg	2000	53469-21-9	Y
PCB-1221	Not detected	11,000		ug/kg	2000	11104-28-2	Y
PCB-1232	Not detected	11,000		ug/kg	2000	11141-16-5	Y
PCB-1248	Not detected	11,000		ug/kg	2000	12672-29-6	Y
PCB-1254	65,000	11,000		ug/kg	2000	11097-69-1	Y
PCB-1260	Not detected	11,000		ug/kg	2000	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S09912.20
Sample Tag: SB-10-38(4-6)_12012019
Collected Date/Time: 12/01/2019 16:32
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/12/19 20:10, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000		ug/kg	300	12674-11-2	Y
PCB-1242	Not detected	2,000		ug/kg	300	53469-21-9	Y
PCB-1221	Not detected	2,000		ug/kg	300	11104-28-2	Y
PCB-1232	Not detected	2,000		ug/kg	300	11141-16-5	Y
PCB-1248	Not detected	2,000		ug/kg	300	12672-29-6	Y
PCB-1254	13,000	2,000		ug/kg	300	11097-69-1	Y
PCB-1260	Not detected	2,000		ug/kg	300	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S09912.21
Sample Tag: SB-10-38(6-8)_12012019
Collected Date/Time: 12/01/2019 16:34
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/12/19 19:34, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	2,200	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Lab Sample ID: S09912.22
Sample Tag: SB-10-38(8-10)_12012019
Collected Date/Time: 12/01/2019 16:36
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	71	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 22:32, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.23
Sample Tag: SB-10-38(10-14)_12012019
Collected Date/Time: 12/01/2019 16:38
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 22:43, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.24
Sample Tag: DUP-01_12012019
Collected Date/Time: 12/01/2019 00:01
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/12/19 20:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	100	12672-29-6	Y
PCB-1254	3,000	500		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S09912.25
Sample Tag: SB-DH-RW-1-20(5-7)_12022019
Collected Date/Time: 12/02/2019 09:30
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/12/19 18:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	5,000		ug/kg	1000	12674-11-2	Y
PCB-1242	23,000	5,000		ug/kg	1000	53469-21-9	Y
PCB-1221	Not detected	5,000		ug/kg	1000	11104-28-2	Y
PCB-1232	Not detected	5,000		ug/kg	1000	11141-16-5	Y
PCB-1248	Not detected	5,000		ug/kg	1000	12672-29-6	Y
PCB-1254	Not detected	5,000		ug/kg	1000	11097-69-1	Y
PCB-1260	Not detected	5,000		ug/kg	1000	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S09912.26
Sample Tag: SB-DH-RW-1-20(9-11)_12022019
Collected Date/Time: 12/02/2019 09:32
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/11/19 14:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	1,900	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	Not detected	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09912.27
Sample Tag: SB-DH-RW-1-20(13-15)_12022019
Collected Date/Time: 12/02/2019 09:34
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 18:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.28
Sample Tag: SB-DH-RW-1-21(5-7)_12022019
Collected Date/Time: 12/02/2019 10:02
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/11/19 15:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y
PCB-1242	7,500	1,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S09912.29
Sample Tag: SB-DH-RW-1-21(9-11)_12022019
Collected Date/Time: 12/02/2019 10:04
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/11/19 15:43, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	5,400	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	Not detected	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S09912.30
Sample Tag: SB-DH-RW-1-21(13-15)_12022019
Collected Date/Time: 12/02/2019 10:06
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 19:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.31
Sample Tag: SB-DH-RW-1-22(5-7)_12022019
Collected Date/Time: 12/02/2019 10:36
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 19:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09912.32
Sample Tag: SB-DH-RW-1-22(9-11)_12022019
Collected Date/Time: 12/02/2019 10:38
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/05/19 19:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.33
Sample Tag: SB-DH-RW-1-22(9-11)_12022019 MS
Collected Date/Time: 12/02/2019 10:38
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/05/19 19:13, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09912.34
Sample Tag: SB-DH-RW-1-22(9-11)_12022019 MSD
Collected Date/Time: 12/02/2019 10:38
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/05/19 19:24, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.35
Sample Tag: SB-DH-RW-1-22(13-15)_12022019
Collected Date/Time: 12/02/2019 10:40
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 19:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.36
Sample Tag: SB-DH-RW-1-23(5-7)_12022019
Collected Date/Time: 12/02/2019 11:12
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 19:37, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.37
Sample Tag: SB-DH-RW-1-23(9-11)_12022019
Collected Date/Time: 12/02/2019 11:14
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 19:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.38
Sample Tag: SB-DH-RW-1-23(13-15)_12022019
Collected Date/Time: 12/02/2019 11:16
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 19:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.39
Sample Tag: SB-DH-RW-1-23(13-15)_12022019 MS
Collected Date/Time: 12/02/2019 11:16
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 19:35, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.40
Sample Tag: SB-DH-RW-1-23(13-15)_12022019 MSD
Collected Date/Time: 12/02/2019 11:16
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 19:46, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.41
Sample Tag: DUP-02_12022019
Collected Date/Time: 12/02/2019 00:01
Matrix: Soil
COC Reference: 108731

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 20:01, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.42
Sample Tag: SB-DH-RW-3-55(9-11)_12022019
Collected Date/Time: 12/02/2019 12:34
Matrix: Soil
COC Reference: 108731

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 22:55, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.43
Sample Tag: SB-DH-RW-3-55(11-13)_12022019
Collected Date/Time: 12/02/2019 12:36
Matrix: Soil
COC Reference: 108731

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 23:08, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.44
Sample Tag: SB-DH-RW-3-55(13-15)_12022019
Collected Date/Time: 12/02/2019 12:38
Matrix: Soil
COC Reference: 108731

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 18:45, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.45
Sample Tag: SB-DH-RW-3-55(15-17)_12022019
Collected Date/Time: 12/02/2019 12:40
Matrix: Soil
COC Reference: 108731

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/11/19 16:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y
PCB-1242	7,100	1,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S09912.46
Sample Tag: SB-DH-RW-3-55(17-19)_12022019
Collected Date/Time: 12/02/2019 12:42
Matrix: Soil
COC Reference: 108731

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 20:13, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.47
Sample Tag: SB-DH-RW-1-19(8-10)_12022019
Collected Date/Time: 12/02/2019 13:12
Matrix: Soil
COC Reference: 108731

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 20:24, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09912.48
Sample Tag: SB-DH-RW-1-19(12-14)_12022019
Collected Date/Time: 12/02/2019 13:14
Matrix: Soil
COC Reference: 108731

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 17:13, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	600	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.49
Sample Tag: SB-DH-RW-1-19(16-18)_12022019
Collected Date/Time: 12/02/2019 13:16
Matrix: Soil
COC Reference: 108731

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 18:57, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID:S09912
Client:ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30006800.01904 Buick City
Submitted:12/03/2019 15:10 Login User: SRS

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.3
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[ ] Yes	[ ] No	[X] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 4

113947

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI | STATE: MI | ZIP CODE: 48377
PHONE NO.: 734-732-3671 | FAX NO.: — | P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM | QUOTE NO.: —

INVOICE TO

CONTACT NAME | ☑ SAME
COMPANY
ADDRESS
CITY | STATE | ZIP CODE
PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME: 30006850.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☑ Other FLINT, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
09912.01	12/1/19	13:05	SB-10-34(8-10)_12012019	S	1	1							✓
.02		13:07	SB-10-34(10-12)_12012019	S	1	1							✓
.03		13:09	SB-10-34(12-14)_12012019	S	1	1							✓
.04		13:11	SB-10-34(14-16)_12012019	S	1	1							✓
.05		13:58	SB-10-35(8-10)_12012019	S	1	1							✓
.06		14:00	SB-10-35(10-12)_12012019	S	1	1							✓
.07		14:02	SB-10-35(12-14)_12012019	S	1	1							✓
.08		14:04	SB-10-35(14-17)_12012019	S	1	1							✓
.09		14:50	SB-10-36(1-3)_12012019	S	1	1							✓
.10		14:52	SB-10-36(4-6)_12012019	S	1	1							✓
.11		14:54	SB-10-36(6-8)_12012019	S	1	1							✓
.12		14:56	SB-10-36(8-10)_12012019	S	1	1							✓

		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	12/3/19	14:10
RECEIVED BY: SIGNATURE/ORGANIZATION		12/3/19	14:10
RELINQUISHED BY: SIGNATURE/ORGANIZATION		12/3/19	15:0
RECEIVED BY: SIGNATURE/ORGANIZATION		12/3/19	1530

RELINQUISHED BY: SIGNATURE/ORGANIZATION — DATE — TIME
RECEIVED BY: SIGNATURE/ORGANIZATION — DATE — TIME

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS
SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS

NOTES: 43
TEMP. ON ARRIVAL

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.
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www.meritlabs.com

C.O.C. PAGE # 2 OF 4

108730

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
09912.13	12/1/19	14:58	SB-10-36(10-12)_12012019	S	1	1							✓
.14		15:48	SB-10-37(1-3)_12012019	S	1	1							✓
.15		15:50	SB-10-37(4-6)_12012019	S	1	1							✓
.16		15:52	SB-10-37(6-8)_12012019	S	1	1							✓
.17		15:54	SB-10-37(8-10)_12012019	S	1	1							✓
.18		15:56	SB-10-37(10-13)_12012019	S	1	1							✓
.19		16:30	SB-10-38(1-3)_12012019	S	1	1							✓
.20		16:32	SB-10-38(4-6)_12012019	S	1	1							✓
.21		16:34	SB-10-38(6-8)_12012019	S	1	1							✓
.22		16:36	SB-10-38(8-10)_12012019	S	1	1							✓
.23		16:38	SB-10-38(10-14)_12012019	S	1	1							✓
.24		—	[redacted] DUP-01-12012019	S	1	1							✓

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 12/3/19	TIME 14:10
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/3/19	TIME 14:10
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 12/3/19	TIME 15:10
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/3/19	TIME 1510

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

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www.meritlabs.com

C.O.C. PAGE # 3 OF 4

108729

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
09912.25	12/2/19	09:30	SB-DH-RW-1-20(5-7)_12022019	S	1	1							✓	
.26		09:32	SB-DH-RW-1-20(9-11)_12022019	S	1	1							✓	
.27		09:34	SB-DH-RW-1-20(13-15)_12022019	S	1	1							✓	
.28		10:02	SB-DH-RW-1-21(5-7)_12022019	S	1	1							✓	
.29		10:04	SB-DH-RW-1-21(9-11)_12022019	S	1	1							✓	
.30		10:06	SB-DH-RW-1-21(13-15)_12022019	S	1	1							✓	
.31		10:36	SB-DH-RW-1-22(5-7)_12022019	S	1	1							✓	
.32/.33/.34		10:38	SB-DH-RW-1-22(9-11)_12022019	S	3	3							✓	MS/MSD
.35		10:40	SB-DH-RW-1-22(13-15)_12022019	S	1	1							✓	
.36		11:12	SB-DH-RW-1-23(5-7)_12022019	S	1	1							✓	
.37		11:14	SB-DH-RW-1-23(9-11)_12022019	S	1	1							✓	
.38/.39/.40		11:16	SB-DH-RW-1-23(13-15)_12022019	S	3	3							✓	MS/MSD

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 12/3/19	TIME 14:10
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/3/19	TIME 14:10
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 12/3/19	TIME 15:10
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/3/19	TIME 1510

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.
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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 4 OF 4

108731

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
09912,41	12/2/19	—	DUP-02_12022019	S	1	1							✓
,42		12:34	SB-DH-RW-3-55(9-11)_12022019	S	1	1							✓
,43		12:36	SB-DH-RW-3-55(11-13)_12022019	S	1	1							✓
,44		12:38	SB-DH-RW-3-55(13-15)_12022019	S	1	1							✓
,45		12:40	SB-DH-RW-3-55(15-17)_12022019	S	1	1							✓
,46		12:42	SB-DH-RW-3-55(17-19)_12022019	S	1	1							✓
,47		13:12	SB-DH-RW-1-19(8-10)_12022019	S	1	1							✓
,48		13:14	SB-DH-RW-1-19(12-14)_12022019	S	1	1							✓
,49		13:16	SB-DH-RW-1-19(16-18)_12022019	S	1	1							✓

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 12/3/19	TIME 14:10
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/3/19	TIME 14:10
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 12/3/19	TIME 15:10
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/3/19	TIME 15:10

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

NOTES: TEMP. ON ARRIVAL 4.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S09912.01(01)
Generated on 12/13/2019

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

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John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki, Joey Barker

Report Summary

Lab Sample ID(s): S09912.01-S09912.49
Project: 30006800.01904 Buick City
Collected Date(s): 12/01/2019 - 12/02/2019
Submitted Date/Time: 12/03/2019 15:10
Sampled by: Caitlin Cisco
P.O. #: 30006800.01904

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (49 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S09912.01	SB-10-34(8-10)_12012019	Soil	12/01/19 13:05
S09912.02	SB-10-34(10-12)_12012019	Soil	12/01/19 13:07
S09912.03	SB-10-34(12-14)_12012019	Soil	12/01/19 13:09
S09912.04	SB-10-34(14-16)_12012019	Soil	12/01/19 13:11
S09912.05	SB-10-35(8-10)_12012019	Soil	12/01/19 13:58
S09912.06	SB-10-35(10-12)_12012019	Soil	12/01/19 14:00
S09912.07	SB-10-35(12-14)_12012019	Soil	12/01/19 14:02
S09912.08	SB-10-35(14-17)_12012019	Soil	12/01/19 14:04
S09912.09	SB-10-36(1-3)_12012019	Soil	12/01/19 14:50
S09912.10	SB-10-36(4-6)_12012019	Soil	12/01/19 14:52
S09912.11	SB-10-36(6-8)_12012019	Soil	12/01/19 14:54
S09912.12	SB-10-36(8-10)_12012019	Soil	12/01/19 14:56
S09912.13	SB-10-36(10-12)_12012019	Soil	12/01/19 14:58
S09912.14	SB-10-37(1-3)_12012019	Soil	12/01/19 15:48
S09912.15	SB-10-37(4-6)_12012019	Soil	12/01/19 15:50
S09912.16	SB-10-37(6-8)_12012019	Soil	12/01/19 15:52
S09912.17	SB-10-37(8-10)_12012019	Soil	12/01/19 15:54
S09912.18	SB-10-37(10-13)_12012019	Soil	12/01/19 15:56
S09912.19	SB-10-38(1-3)_12012019	Soil	12/01/19 16:30
S09912.20	SB-10-38(4-6)_12012019	Soil	12/01/19 16:32
S09912.21	SB-10-38(6-8)_12012019	Soil	12/01/19 16:34
S09912.22	SB-10-38(8-10)_12012019	Soil	12/01/19 16:36
S09912.23	SB-10-38(10-14)_12012019	Soil	12/01/19 16:38
S09912.24	DUP-01_12012019	Soil	12/01/19 00:01
S09912.25	SB-DH-RW-1-20(5-7)_12022019	Soil	12/02/19 09:30
S09912.26	SB-DH-RW-1-20(9-11)_12022019	Soil	12/02/19 09:32
S09912.27	SB-DH-RW-1-20(13-15)_12022019	Soil	12/02/19 09:34
S09912.28	SB-DH-RW-1-21(5-7)_12022019	Soil	12/02/19 10:02
S09912.29	SB-DH-RW-1-21(9-11)_12022019	Soil	12/02/19 10:04
S09912.30	SB-DH-RW-1-21(13-15)_12022019	Soil	12/02/19 10:06
S09912.31	SB-DH-RW-1-22(5-7)_12022019	Soil	12/02/19 10:36
S09912.32	SB-DH-RW-1-22(9-11)_12022019	Soil	12/02/19 10:38
S09912.33	SB-DH-RW-1-22(9-11)_12022019 MS	Soil	12/02/19 10:38
S09912.34	SB-DH-RW-1-22(9-11)_12022019 MSD	Soil	12/02/19 10:38
S09912.35	SB-DH-RW-1-22(13-15)_12022019	Soil	12/02/19 10:40
S09912.36	SB-DH-RW-1-23(5-7)_12022019	Soil	12/02/19 11:12
S09912.37	SB-DH-RW-1-23(9-11)_12022019	Soil	12/02/19 11:14
S09912.38	SB-DH-RW-1-23(13-15)_12022019	Soil	12/02/19 11:16
S09912.39	SB-DH-RW-1-23(13-15)_12022019 MS	Soil	12/02/19 11:16
S09912.40	SB-DH-RW-1-23(13-15)_12022019 MSD	Soil	12/02/19 11:16
S09912.41	DUP-02_12022019	Soil	12/02/19 00:01
S09912.42	SB-DH-RW-3-55(9-11)_12022019	Soil	12/02/19 12:34
S09912.43	SB-DH-RW-3-55(11-13)_12022019	Soil	12/02/19 12:36
S09912.44	SB-DH-RW-3-55(13-15)_12022019	Soil	12/02/19 12:38
S09912.45	SB-DH-RW-3-55(15-17)_12022019	Soil	12/02/19 12:40
S09912.46	SB-DH-RW-3-55(17-19)_12022019	Soil	12/02/19 12:42
S09912.47	SB-DH-RW-1-19(8-10)_12022019	Soil	12/02/19 13:12
S09912.48	SB-DH-RW-1-19(12-14)_12022019	Soil	12/02/19 13:14
S09912.49	SB-DH-RW-1-19(16-18)_12022019	Soil	12/02/19 13:16

Analytical Laboratory Report

Lab Sample ID: S09912.01
Sample Tag: SB-10-34(8-10)_12012019
Collected Date/Time: 12/01/2019 13:05
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 19:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.02
Sample Tag: SB-10-34(10-12)_12012019
Collected Date/Time: 12/01/2019 13:07
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 19:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.03
Sample Tag: SB-10-34(12-14)_12012019
Collected Date/Time: 12/01/2019 13:09
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 19:46, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.04
Sample Tag: SB-10-34(14-16)_12012019
Collected Date/Time: 12/01/2019 13:11
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 19:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09912.05
Sample Tag: SB-10-35(8-10)_12012019
Collected Date/Time: 12/01/2019 13:58
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	94	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 20:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.06
Sample Tag: SB-10-35(10-12)_12012019
Collected Date/Time: 12/01/2019 14:00
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	95	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 20:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.07
Sample Tag: SB-10-35(12-14)_12012019
Collected Date/Time: 12/01/2019 14:02
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 20:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.08
Sample Tag: SB-10-35(14-17)_12012019
Collected Date/Time: 12/01/2019 14:04
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 20:45, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.09
Sample Tag: SB-10-36(1-3)_12012019
Collected Date/Time: 12/01/2019 14:50
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 20:57, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.10
Sample Tag: SB-10-36(4-6)_12012019
Collected Date/Time: 12/01/2019 14:52
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 21:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.11
Sample Tag: SB-10-36(6-8)_12012019
Collected Date/Time: 12/01/2019 14:54
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 21:20, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.12
Sample Tag: SB-10-36(8-10)_12012019
Collected Date/Time: 12/01/2019 14:56
Matrix: Soil
COC Reference: 113947

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 21:32, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	360	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.13
Sample Tag: SB-10-36(10-12)_12012019
Collected Date/Time: 12/01/2019 14:58
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 21:44, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	360	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.14
Sample Tag: SB-10-37(1-3)_12012019
Collected Date/Time: 12/01/2019 15:48
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 21:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.15
Sample Tag: SB-10-37(4-6)_12012019
Collected Date/Time: 12/01/2019 15:50
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 22:08, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09912.16
Sample Tag: SB-10-37(6-8)_12012019
Collected Date/Time: 12/01/2019 15:52
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	75	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/12/19 19:46, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	700		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	700		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	700		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	700		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	700		ug/kg	100	12672-29-6	Y
PCB-1254	3,000	700		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	700		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S09912.17
Sample Tag: SB-10-37(8-10)_12012019
Collected Date/Time: 12/01/2019 15:54
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 18:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	500	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.18
Sample Tag: SB-10-37(10-13)_12012019
Collected Date/Time: 12/01/2019 15:56
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 22:20, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09912.19
Sample Tag: SB-10-38(1-3)_12012019
Collected Date/Time: 12/01/2019 16:30
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 12:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/12/19 19:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	11,000		ug/kg	2000	12674-11-2	Y
PCB-1242	Not detected	11,000		ug/kg	2000	53469-21-9	Y
PCB-1221	Not detected	11,000		ug/kg	2000	11104-28-2	Y
PCB-1232	Not detected	11,000		ug/kg	2000	11141-16-5	Y
PCB-1248	Not detected	11,000		ug/kg	2000	12672-29-6	Y
PCB-1254	65,000	11,000		ug/kg	2000	11097-69-1	Y
PCB-1260	Not detected	11,000		ug/kg	2000	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S09912.20
Sample Tag: SB-10-38(4-6)_12012019
Collected Date/Time: 12/01/2019 16:32
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/12/19 20:10, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000		ug/kg	300	12674-11-2	Y
PCB-1242	Not detected	2,000		ug/kg	300	53469-21-9	Y
PCB-1221	Not detected	2,000		ug/kg	300	11104-28-2	Y
PCB-1232	Not detected	2,000		ug/kg	300	11141-16-5	Y
PCB-1248	Not detected	2,000		ug/kg	300	12672-29-6	Y
PCB-1254	13,000	2,000		ug/kg	300	11097-69-1	Y
PCB-1260	Not detected	2,000		ug/kg	300	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S09912.21
Sample Tag: SB-10-38(6-8)_12012019
Collected Date/Time: 12/01/2019 16:34
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/12/19 19:34, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	2,200	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Lab Sample ID: S09912.22
Sample Tag: SB-10-38(8-10)_12012019
Collected Date/Time: 12/01/2019 16:36
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	71	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 22:32, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.23
Sample Tag: SB-10-38(10-14)_12012019
Collected Date/Time: 12/01/2019 16:38
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 22:43, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.24
Sample Tag: DUP-01_12012019
Collected Date/Time: 12/01/2019 00:01
Matrix: Soil
COC Reference: 108730

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/12/19 20:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	100	12672-29-6	Y
PCB-1254	3,000	500		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S09912.25
Sample Tag: SB-DH-RW-1-20(5-7)_12022019
Collected Date/Time: 12/02/2019 09:30
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/12/19 18:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	5,000		ug/kg	1000	12674-11-2	Y
PCB-1242	23,000	5,000		ug/kg	1000	53469-21-9	Y
PCB-1221	Not detected	5,000		ug/kg	1000	11104-28-2	Y
PCB-1232	Not detected	5,000		ug/kg	1000	11141-16-5	Y
PCB-1248	Not detected	5,000		ug/kg	1000	12672-29-6	Y
PCB-1254	Not detected	5,000		ug/kg	1000	11097-69-1	Y
PCB-1260	Not detected	5,000		ug/kg	1000	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S09912.26
Sample Tag: SB-DH-RW-1-20(9-11)_12022019
Collected Date/Time: 12/02/2019 09:32
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/11/19 14:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	1,900	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	Not detected	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09912.27
Sample Tag: SB-DH-RW-1-20(13-15)_12022019
Collected Date/Time: 12/02/2019 09:34
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 18:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.28
Sample Tag: SB-DH-RW-1-21(5-7)_12022019
Collected Date/Time: 12/02/2019 10:02
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/11/19 15:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y
PCB-1242	7,500	1,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S09912.29
Sample Tag: SB-DH-RW-1-21(9-11)_12022019
Collected Date/Time: 12/02/2019 10:04
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/11/19 15:43, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	5,400	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	Not detected	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S09912.30
Sample Tag: SB-DH-RW-1-21(13-15)_12022019
Collected Date/Time: 12/02/2019 10:06
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 19:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.31
Sample Tag: SB-DH-RW-1-22(5-7)_12022019
Collected Date/Time: 12/02/2019 10:36
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 19:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09912.32
Sample Tag: SB-DH-RW-1-22(9-11)_12022019
Collected Date/Time: 12/02/2019 10:38
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/05/19 19:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.33
Sample Tag: SB-DH-RW-1-22(9-11)_12022019 MS
Collected Date/Time: 12/02/2019 10:38
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/05/19 19:13, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09912.34
Sample Tag: SB-DH-RW-1-22(9-11)_12022019 MSD
Collected Date/Time: 12/02/2019 10:38
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/04/19 14:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/05/19 19:24, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.35
Sample Tag: SB-DH-RW-1-22(13-15)_12022019
Collected Date/Time: 12/02/2019 10:40
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 19:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.36
Sample Tag: SB-DH-RW-1-23(5-7)_12022019
Collected Date/Time: 12/02/2019 11:12
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 19:37, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.37
Sample Tag: SB-DH-RW-1-23(9-11)_12022019
Collected Date/Time: 12/02/2019 11:14
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 19:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.38
Sample Tag: SB-DH-RW-1-23(13-15)_12022019
Collected Date/Time: 12/02/2019 11:16
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 19:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.39
Sample Tag: SB-DH-RW-1-23(13-15)_12022019 MS
Collected Date/Time: 12/02/2019 11:16
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 19:35, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.40
Sample Tag: SB-DH-RW-1-23(13-15)_12022019 MSD
Collected Date/Time: 12/02/2019 11:16
Matrix: Soil
COC Reference: 108729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 19:46, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.41
Sample Tag: DUP-02_12022019
Collected Date/Time: 12/02/2019 00:01
Matrix: Soil
COC Reference: 108731

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 20:01, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.42
Sample Tag: SB-DH-RW-3-55(9-11)_12022019
Collected Date/Time: 12/02/2019 12:34
Matrix: Soil
COC Reference: 108731

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 22:55, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.43
Sample Tag: SB-DH-RW-3-55(11-13)_12022019
Collected Date/Time: 12/02/2019 12:36
Matrix: Soil
COC Reference: 108731

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/09/19 23:08, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.44
Sample Tag: SB-DH-RW-3-55(13-15)_12022019
Collected Date/Time: 12/02/2019 12:38
Matrix: Soil
COC Reference: 108731

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 18:45, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.45
Sample Tag: SB-DH-RW-3-55(15-17)_12022019
Collected Date/Time: 12/02/2019 12:40
Matrix: Soil
COC Reference: 108731

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/11/19 16:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y
PCB-1242	7,100	1,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S09912.46
Sample Tag: SB-DH-RW-3-55(17-19)_12022019
Collected Date/Time: 12/02/2019 12:42
Matrix: Soil
COC Reference: 108731

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 20:13, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09912.47
Sample Tag: SB-DH-RW-1-19(8-10)_12022019
Collected Date/Time: 12/02/2019 13:12
Matrix: Soil
COC Reference: 108731

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 20:24, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09912.48
Sample Tag: SB-DH-RW-1-19(12-14)_12022019
Collected Date/Time: 12/02/2019 13:14
Matrix: Soil
COC Reference: 108731

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 11:30	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 17:13, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	600	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S09912.49
Sample Tag: SB-DH-RW-1-19(16-18)_12022019
Collected Date/Time: 12/02/2019 13:16
Matrix: Soil
COC Reference: 108731

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/04/19 14:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 18:57, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID:S09912
Client:ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30006800.01904 Buick City
Submitted:12/03/2019 15:10 Login User: SRS

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.3
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[ ] Yes	[ ] No	[X] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 4

113947

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI | STATE: MI | ZIP CODE: 48377
PHONE NO.: 734-732-3671 | FAX NO.: — | P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM | QUOTE NO.: —

INVOICE TO

CONTACT NAME | ☑ SAME
COMPANY
ADDRESS
CITY | STATE | ZIP CODE
PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME: 30006850.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☑ Other FLINT, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
09912.01	12/1/19	13:05	SB-10-34(8-10)_12012019	S	1	1							✓
.02		13:07	SB-10-34(10-12)_12012019	S	1	1							✓
.03		13:09	SB-10-34(12-14)_12012019	S	1	1							✓
.04		13:11	SB-10-34(14-16)_12012019	S	1	1							✓
.05		13:58	SB-10-35(8-10)_12012019	S	1	1							✓
.06		14:00	SB-10-35(10-12)_12012019	S	1	1							✓
.07		14:02	SB-10-35(12-14)_12012019	S	1	1							✓
.08		14:04	SB-10-35(14-17)_12012019	S	1	1							✓
.09		14:50	SB-10-36(1-3)_12012019	S	1	1							✓
.10		14:52	SB-10-36(4-6)_12012019	S	1	1							✓
.11		14:54	SB-10-36(6-8)_12012019	S	1	1							✓
.12		14:56	SB-10-36(8-10)_12012019	S	1	1							✓

		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	12/3/19	14:10
RECEIVED BY: SIGNATURE/ORGANIZATION		12/3/19	14:10
RELINQUISHED BY: SIGNATURE/ORGANIZATION		12/3/19	15:0
RECEIVED BY: SIGNATURE/ORGANIZATION		12/3/19	1530

RELINQUISHED BY: SIGNATURE/ORGANIZATION — DATE — TIME
RECEIVED BY: SIGNATURE/ORGANIZATION — DATE — TIME

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS
SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS

NOTES: 43
TEMP. ON ARRIVAL

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

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C.O.C. PAGE # 2 OF 4

108730

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
09912.13	12/1/19	14:58	SB-10-36(10-12)_12012019	S	1	1							✓
.14		15:48	SB-10-37(1-3)_12012019	S	1	1							✓
.15		15:50	SB-10-37(4-6)_12012019	S	1	1							✓
.16		15:52	SB-10-37(6-8)_12012019	S	1	1							✓
.17		15:54	SB-10-37(8-10)_12012019	S	1	1							✓
.18		15:56	SB-10-37(10-13)_12012019	S	1	1							✓
.19		16:30	SB-10-38(1-3)_12012019	S	1	1							✓
.20		16:32	SB-10-38(4-6)_12012019	S	1	1							✓
.21		16:34	SB-10-38(6-8)_12012019	S	1	1							✓
.22		16:36	SB-10-38(8-10)_12012019	S	1	1							✓
.23		16:38	SB-10-38(10-14)_12012019	S	1	1							✓
.24		—	[redacted] DUP-01-12012019	S	1	1							✓

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 12/3/19	TIME 14:10
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/3/19	TIME 14:10
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 12/3/19	TIME 15:10
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/3/19	TIME 1510

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

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C.O.C. PAGE # 3 OF 4

108729

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
09912.25	12/2/19	09:30	SB-DH-RW-1-20(5-7)_12022019	S	1	1							✓	
.26		09:32	SB-DH-RW-1-20(9-11)_12022019	S	1	1							✓	
.27		09:34	SB-DH-RW-1-20(13-15)_12022019	S	1	1							✓	
.28		10:02	SB-DH-RW-1-21(5-7)_12022019	S	1	1							✓	
.29		10:04	SB-DH-RW-1-21(9-11)_12022019	S	1	1							✓	
.30		10:06	SB-DH-RW-1-21(13-15)_12022019	S	1	1							✓	
.31		10:36	SB-DH-RW-1-22(5-7)_12022019	S	1	1							✓	
.32/.33/.34		10:38	SB-DH-RW-1-22(9-11)_12022019	S	3	3							✓	MS/MSD
.35		10:40	SB-DH-RW-1-22(13-15)_12022019	S	1	1							✓	
.36		11:12	SB-DH-RW-1-23(5-7)_12022019	S	1	1							✓	
.37		11:14	SB-DH-RW-1-23(9-11)_12022019	S	1	1							✓	
.38/.39/.40		11:16	SB-DH-RW-1-23(13-15)_12022019	S	3	3							✓	MS/MSD

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 12/3/19	TIME 14:10
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/3/19	TIME 14:10
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 12/3/19	TIME 15:10
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/3/19	TIME 1510

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 4 OF 4

108731

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

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☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
09912,41	12/2/19	—	DUP-02_12022019	S	1	1							✓
,42		12:34	SB-DH-RW-3-55(9-11)_12022019	S	1	1							✓
,43		12:36	SB-DH-RW-3-55(11-13)_12022019	S	1	1							✓
,44		12:38	SB-DH-RW-3-55(13-15)_12022019	S	1	1							✓
,45		12:40	SB-DH-RW-3-55(15-17)_12022019	S	1	1							✓
,46		12:42	SB-DH-RW-3-55(17-19)_12022019	S	1	1							✓
,47		13:12	SB-DH-RW-1-19(8-10)_12022019	S	1	1							✓
,48		13:14	SB-DH-RW-1-19(12-14)_12022019	S	1	1							✓
,49		13:16	SB-DH-RW-1-19(16-18)_12022019	S	1	1							✓

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 12/3/19	TIME 14:10
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/3/19	TIME 14:10
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 12/3/19	TIME 15:10
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/3/19	TIME 15:10

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

NOTES: TEMP. ON ARRIVAL 4.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S09961.01(01)
Generated on 12/11/2019

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

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Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki, Joey Barker

Report Summary

Lab Sample ID(s): S09961.01-S09961.35
Project: 30006800.01904 Buick City
Collected Date(s): 12/02/2019 - 12/04/2019
Submitted Date/Time: 12/04/2019 15:55
Sampled by: Caitlin Cisco
P.O. #: 30006800.01904

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (35 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S09961.01	DUP-03_12022019	Soil	12/02/19 00:01
S09961.02	SB-05-05-20(11-13)_12022019	Soil	12/02/19 14:00
S09961.03	SB-05-05-20(13-15)_12022019	Soil	12/02/19 14:02
S09961.04	SB-05-05-20(15-17)_12022019	Soil	12/02/19 14:04
S09961.05	SB-05-05-20(17-19)_12022019	Soil	12/02/19 14:06
S09961.06	SB-05-05-19(11-13)_12022019	Soil	12/02/19 14:38
S09961.07	SB-05-05-19(13-15)_12022019	Soil	12/02/19 14:40
S09961.08	SB-05-05-19(15-17)_12022019	Soil	12/02/19 14:42
S09961.09	SB-05-05-19(17-19)_12022019	Soil	12/02/19 14:44
S09961.10	SB-05-05-19(17-19)_12022019 MS	Soil	12/02/19 14:44
S09961.11	SB-05-05-19(17-19)_12022019 MSD	Soil	12/02/19 14:44
S09961.12	SB-05-05-18(11-13)_12022019	Soil	12/02/19 15:10
S09961.13	SB-05-05-18(13-15)_12022019	Soil	12/02/19 15:12
S09961.14	SB-05-05-18(15-17)_12022019	Soil	12/02/19 15:14
S09961.15	SB-05-05-18(17-19)_12022019	Soil	12/02/19 15:16
S09961.16	SB-03-10A(2-4)_12042019	Soil	12/04/19 08:52
S09961.17	SB-10-42(0-2)_12042019	Soil	12/04/19 09:15
S09961.18	SB-10-42(2-4)_12042019	Soil	12/04/19 09:18
S09961.19	SB-10-39(1-3)_12042019	Soil	12/04/19 09:50
S09961.20	SB-10-39(3-5)_12042019	Soil	12/04/19 09:52
S09961.21	SB-10-40(1-3)_12042019	Soil	12/04/19 10:08
S09961.22	SB-10-40(3-5)_12042019	Soil	12/04/19 10:10
S09961.23	SB-10-40(3-5)_12042019 MS	Soil	12/04/19 10:10
S09961.24	SB-10-40(3-5)_12042019 MSD	Soil	12/04/19 10:10
S09961.25	SB-FEP-21(0-0.5)_12042019	Soil	12/04/19 11:12
S09961.26	SB-FEP-21(2-4)_12042019	Soil	12/04/19 11:14
S09961.27	SB-FEP-12R(0-0.5)_12042019	Soil	12/04/19 11:24
S09961.28	SB-FEP-12R(2-4)_12042019	Soil	12/04/19 11:26
S09961.29	SB-FEP-19(0-0.5)_12042019	Soil	12/04/19 11:41
S09961.30	SB-FEP-19(2-4)_12042019	Soil	12/04/19 11:43
S09961.31	DUP-04_12042019	Soil	12/04/19 00:01
S09961.32	SB-ACSP-01A(0-2)_12042019	Soil	12/04/19 13:32
S09961.33	SB-ACSP-01A(6-8)_12042019	Soil	12/04/19 13:34
S09961.34	SB-ACSP-02A(1-2)_12042019	Soil	12/04/19 13:51
S09961.35	SB-ACSP-02B(6-8)_12042019	Soil	12/04/19 13:53

Analytical Laboratory Report

Lab Sample ID: S09961.01
Sample Tag: DUP-03_12022019
Collected Date/Time: 12/02/2019 00:01
Matrix: Soil
COC Reference: 103842

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 19:57, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09961.02
Sample Tag: SB-05-05-20(11-13)_12022019
Collected Date/Time: 12/02/2019 14:00
Matrix: Soil
COC Reference: 103842

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 20:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09961.03
Sample Tag: SB-05-05-20(13-15)_12022019
Collected Date/Time: 12/02/2019 14:02
Matrix: Soil
COC Reference: 103842

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 20:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09961.04
Sample Tag: SB-05-05-20(15-17)_12022019
Collected Date/Time: 12/02/2019 14:04
Matrix: Soil
COC Reference: 103842

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 20:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09961.05
Sample Tag: SB-05-05-20(17-19)_12022019
Collected Date/Time: 12/02/2019 14:06
Matrix: Soil
COC Reference: 103842

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 20:36, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09961.06
Sample Tag: SB-05-05-19(11-13)_12022019
Collected Date/Time: 12/02/2019 14:38
Matrix: Soil
COC Reference: 103842

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 20:48, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09961.07
Sample Tag: SB-05-05-19(13-15)_12022019
Collected Date/Time: 12/02/2019 14:40
Matrix: Soil
COC Reference: 103842

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/19 21:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09961.08
Sample Tag: SB-05-05-19(15-17)_12022019
Collected Date/Time: 12/02/2019 14:42
Matrix: Soil
COC Reference: 103842

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 20:44, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09961.09
Sample Tag: SB-05-05-19(17-19)_12022019
Collected Date/Time: 12/02/2019 14:44
Matrix: Soil
COC Reference: 103842

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 16:30, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09961.10
Sample Tag: SB-05-05-19(17-19)_12022019 MS
Collected Date/Time: 12/02/2019 14:44
Matrix: Soil
COC Reference: 103842

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 16:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	20	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	20	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09961.11
Sample Tag: SB-05-05-19(17-19)_12022019 MSD
Collected Date/Time: 12/02/2019 14:44
Matrix: Soil
COC Reference: 103842

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 16:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	20	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	20	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09961.12
Sample Tag: SB-05-05-18(11-13)_12022019
Collected Date/Time: 12/02/2019 15:10
Matrix: Soil
COC Reference: 103842

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 20:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09961.13
Sample Tag: SB-05-05-18(13-15)_12022019
Collected Date/Time: 12/02/2019 15:12
Matrix: Soil
COC Reference: 103842

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	77	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 21:08, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09961.14
Sample Tag: SB-05-05-18(15-17)_12022019
Collected Date/Time: 12/02/2019 15:14
Matrix: Soil
COC Reference: 103842

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 21:20, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09961.15
Sample Tag: SB-05-05-18(17-19)_12022019
Collected Date/Time: 12/02/2019 15:16
Matrix: Soil
COC Reference: 094067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 21:32, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S09961.16
Sample Tag: SB-03-10A(2-4)_12042019
Collected Date/Time: 12/04/2019 08:52
Matrix: Soil
COC Reference: 094067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/09/19 12:15	JRH	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/09/19 14:07, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	1,210	0.50		mg/kg	389	7439-96-5	

Lab Sample ID: S09961.17
Sample Tag: SB-10-42(0-2)_12042019
Collected Date/Time: 12/04/2019 09:15
Matrix: Soil
COC Reference: 094067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/09/19 12:15	JRH	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/09/19 14:20, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	381	0.50		mg/kg	383	7439-96-5	

Lab Sample ID: S09961.18
Sample Tag: SB-10-42(2-4)_12042019
Collected Date/Time: 12/04/2019 09:18
Matrix: Soil
COC Reference: 094067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/09/19 12:15	JRH	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/09/19 14:10, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	66.1	0.50		mg/kg	383	7439-96-5	

Analytical Laboratory Report

Lab Sample ID: S09961.19
Sample Tag: SB-10-39(1-3)_12042019
Collected Date/Time: 12/04/2019 09:50
Matrix: Soil
COC Reference: 094067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/09/19 12:15	JRH	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	96	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/09/19 13:26, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	9.93	0.30		mg/kg	205	7439-92-1	

Lab Sample ID: S09961.20
Sample Tag: SB-10-39(3-5)_12042019
Collected Date/Time: 12/04/2019 09:52
Matrix: Soil
COC Reference: 094067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/09/19 12:15	JRH	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	97	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/09/19 13:29, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	10.6	0.30		mg/kg	209	7439-92-1	

Lab Sample ID: S09961.21
Sample Tag: SB-10-40(1-3)_12042019
Collected Date/Time: 12/04/2019 10:08
Matrix: Soil
COC Reference: 094067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/09/19 12:15	JRH	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/09/19 13:30, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	31.7	0.30		mg/kg	228	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S09961.22
Sample Tag: SB-10-40(3-5)_12042019
Collected Date/Time: 12/04/2019 10:10
Matrix: Soil
COC Reference: 094067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/09/19 12:15	JRH	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/09/19 13:39, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	23.1	0.30		mg/kg	222	7439-92-1	

Lab Sample ID: S09961.23
Sample Tag: SB-10-40(3-5)_12042019 MS
Collected Date/Time: 12/04/2019 10:10
Matrix: Soil
COC Reference: 094067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/09/19 12:15	JRH	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	92	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/09/19 13:40, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	54.3	0.30		mg/kg	211	7439-92-1	

Lab Sample ID: S09961.24
Sample Tag: SB-10-40(3-5)_12042019 MSD
Collected Date/Time: 12/04/2019 10:10
Matrix: Soil
COC Reference: 094067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/09/19 12:15	JRH	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	92	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/09/19 13:41, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	39.9	0.30		mg/kg	216	7439-92-1	

Lab Sample ID: S09961.25
Sample Tag: SB-FEP-21(0-0.5)_12042019
Collected Date/Time: 12/04/2019 11:12
Matrix: Soil
COC Reference: 094067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/09/19 12:15	JRH	

Inorganics

Method: SM2540B, Run Date: 12/07/19 12:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/09/19 13:31, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	290	0.30		mg/kg	231	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S09961.26
Sample Tag: SB-FEP-21(2-4)_12042019
Collected Date/Time: 12/04/2019 11:14
Matrix: Soil
COC Reference: 094067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/09/19 12:15	JRH	

Inorganics

Method: SM2540B, Run Date: 12/07/19 13:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/09/19 13:32, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	218	0.30		mg/kg	222	7439-92-1	

Lab Sample ID: S09961.27
Sample Tag: SB-FEP-12R(0-0.5)_12042019
Collected Date/Time: 12/04/2019 11:24
Matrix: Soil
COC Reference: 094067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/09/19 12:15	JRH	

Inorganics

Method: SM2540B, Run Date: 12/07/19 13:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/09/19 13:34, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	145	0.30		mg/kg	234	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S09961.28
Sample Tag: SB-FEP-12R(2-4)_12042019
Collected Date/Time: 12/04/2019 11:26
Matrix: Soil
COC Reference: 094067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/09/19 12:15	JRH	

Inorganics

Method: SM2540B, Run Date: 12/07/19 13:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/09/19 13:35, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	130	0.30		mg/kg	224	7439-92-1	

Lab Sample ID: S09961.29
Sample Tag: SB-FEP-19(0-0.5)_12042019
Collected Date/Time: 12/04/2019 11:41
Matrix: Soil
COC Reference: 094066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/09/19 12:15	JRH	

Inorganics

Method: SM2540B, Run Date: 12/07/19 13:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/09/19 13:36, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	116	0.30		mg/kg	245	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S09961.30
Sample Tag: SB-FEP-19(2-4)_12042019
Collected Date/Time: 12/04/2019 11:43
Matrix: Soil
COC Reference: 094066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/09/19 12:15	JRH	

Inorganics

Method: SM2540B, Run Date: 12/07/19 13:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/09/19 13:38, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	96.2	0.30		mg/kg	228	7439-92-1	

Lab Sample ID: S09961.31
Sample Tag: DUP-04_12042019
Collected Date/Time: 12/04/2019 00:01
Matrix: Soil
COC Reference: 094066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	12/09/19 12:15	JRH	

Inorganics

Method: SM2540B, Run Date: 12/07/19 13:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Metals

Method: SW6020A, Run Date: 12/09/19 14:11, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	21.4	0.50		mg/kg	388	7439-96-5	

Lab Sample ID: S09961.32
Sample Tag: SB-ACSP-01A(0-2)_12042019
Collected Date/Time: 12/04/2019 13:32
Matrix: Soil
COC Reference: 094066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 13:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 19:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09961.33
Sample Tag: SB-ACSP-01A(6-8)_12042019
Collected Date/Time: 12/04/2019 13:34
Matrix: Soil
COC Reference: 094066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 13:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 19:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09961.34
Sample Tag: SB-ACSP-02A(1-2)_12042019
Collected Date/Time: 12/04/2019 13:51
Matrix: Soil
COC Reference: 094066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 13:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 19:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S09961.35
Sample Tag: SB-ACSP-02B(6-8)_12042019
Collected Date/Time: 12/04/2019 13:53
Matrix: Soil
COC Reference: 094066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/19 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 12/07/19 13:00, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/10/19 18:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S09961
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30006800.01904 Buick City
Submitted: 12/04/2019 15:55 Login User: MMC

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 5.0
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 3

103842

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK
COMPANY: ARCADIS of MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.com QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB's	LEAD	MANGANESE	Special Instructions
09961.01	12/2/19	—	DUP-03_12022019	S	1	1							✓			
.02		14:00	SB-05-05-20(11-13)_12022019	S	1	1							✓			
.03		14:02	SB-05-05-20(13-15)_12022019	S	1	1							✓			
.04		14:04	SB-05-05-20(15-17)_12022019	S	1	1							✓			
.05		14:06	SB-05-05-20(17-19)_12022019	S	1	1							✓			
.06		14:38	SB-05-05-19(11-13)_12022019	S	1	1							✓			
.07		14:40	SB-05-05-19(13-15)_12022019	S	1	1							✓			
.08		14:42	SB-05-05-19(15-17)_12022019	S	1	1							✓			
09.10.11		14:44	SB-05-05-19(17-19)_12022019	S	3	3							✓			MS/MSD
.12		15:10	SB-05-05-18(11-13)_12022019	S	1	1							✓			
.13		15:12	SB-05-05-18(13-15)_12022019	S	1	1							✓			
.14		15:14	SB-05-05-18(15-17)_12022019	S	1	1							✓			

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Caitlin Cisco/ARCADIS ☑ Sampler	DATE: 12/4/19	TIME: 15:00	
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE: 12/4/19	TIME: 15:00	
RELINQUISHED BY: SIGNATURE/ORGANIZATION:	DATE: 12/4/19	TIME: 15:31	
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE: 12/4/19	TIME: 1558	

RELINQUISHED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL: 5.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.
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www.meritlabs.com

C.O.C. PAGE # 2 OF 3

094067

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28500 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME ☑ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: 30006800.01909
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	LEAD	MANGANESE	Special Instructions
09961.15	12/2/19	15:16	SB-05-05-18(17-19)_12022019	S	1	1							✓			
.16	12/4/19	08:52	SB-03-10A(2-4)_12042019	S	1	1									✓	SB-03-10A(2-4)_12042019
.17	"	09:15	SB-10-42(0-2)_12042019	S	1	1									✓	
.18	"	09:18	SB-10-42(2-4)_12042019	S	1	1									✓	
.19	"	09:50	SB-10-39(1-3)_12042019	S	1	1								✓		
.20	"	09:52	SB-10-39(3-5)_12042019	S	1	1								✓		
.21	"	10:08	SB-10-40(1-3)_12042019	S	1	1								✓		
.22/.23/.24	"	10:10	SB-10-40(3-5)_12042019	S	3	3								✓		MS/MSD
.25	"	11:12	SB-FEP-21(0-0.5)_12042019	S	1	1								✓		
.26	"	11:14	SB-FEP-21(2-4)_12042019	S	1	1								✓		
.27	"	11:24	SB-FEP-12R(0-0.5)_12042019	S	1	1								✓		
.28	"	11:26	SB-FEP-12R(2-4)_12042019	S	1	1								✓		

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco/ARCADIS ☑ Sampler	DATE 12/4/19	TIME 15:00
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/4/19	TIME 1500
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 12/4/19	TIME 15:15
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/4/19	TIME 1555

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 5.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 3 OF 3

094066

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006850.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	LEAD	MANGANESE	Special Instructions
09961.29	12/4/19	11:41	SB-FEP-19(0-0.5)_12042019	S	1	1							✓	✓		ANALYSIS: LEAD
.30		11:43	SB-FEP-19(2-4)_12042019	S	1	1								✓		
.31		—	DUP-04_12042019	S	1	1									✓	
.32		13:32	SB-ACSP-01A(0-2)_12042019	S	1	1							✓			
.33		13:34	SB-ACSP-01A(6-8)_12042019	S	1	1							✓			
.34		13:51	SB-ACSP-02A(1-2)_12042019	S	1	1							✓			
.35		13:53	SB-ACSP-02B(6-8)_12042019	S	1	1							✓			

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cusco/ARCADIS ☑ Sampler	DATE 12/4/19	TIME 15:08
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/4/19	TIME 15:40
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 12/4/19	TIME 15:53
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/4/19	TIME 1555

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 5.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S10968.01(01)
Generated on 01/16/2020

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki, Joey Barker, Mary-Catherine.Goddard

Report Summary

Lab Sample ID(s): S10968.01-S10968.35
Project: 30006800.01904 Buick City
Collected Date(s): 01/06/2020 - 01/07/2020
Submitted Date/Time: 01/09/2020 14:10
Sampled by: Caitlin Cisco
P.O. #: 30006800.01904

Table of Contents

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General Report Notes (Page 2)
Report Narrative (Page 2)
Laboratory Certifications (Page 3)
Qualifier Descriptions (Page 3)
Glossary of Abbreviations (Page 3)
Method Summary (Page 4)
Sample Summary (Page 5)

Maya Murshak
Technical Director

Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (35 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S10968.01	SB-10-45(1-3)_01062020	Soil	01/06/20 11:16
S10968.02	SB-10-45(4-6)_01062020	Soil	01/06/20 11:18
S10968.03	SB-10-45(6-8)_01062020	Soil	01/06/20 11:20
S10968.04	SB-10-49(1-3)_01062020	Soil	01/06/20 13:00
S10968.05	SB-10-49(4-6)_01062020	Soil	01/06/20 13:02
S10968.06	SB-10-49(6-8)_01062020	Soil	01/06/20 13:04
S10968.07	DUP-01_01062020	Soil	01/06/20 00:01
S10968.08	SB-10-54(6-8)_01062020	Soil	01/06/20 13:52
S10968.09	SB-10-51(1-3)_01062020	Soil	01/06/20 14:24
S10968.10	SB-10-51(4-6)_01062020	Soil	01/06/20 14:26
S10968.11	SB-10-51(6-8)_01062020	Soil	01/06/20 14:28
S10968.12	SB-10-52(1-3)_01062020	Soil	01/06/20 14:50
S10968.13	SB-10-52(4-6)_01062020	Soil	01/06/20 14:52
S10968.14	SB-10-52(6-8)_01062020	Soil	01/06/20 14:54
S10968.15	SB-10-50(1-3)_01062020	Soil	01/06/20 15:27
S10968.16	SB-10-50(1-3)_01062020 MS	Soil	01/06/20 15:27
S10968.17	SB-10-50(1-3)_01062020 MSD	Soil	01/06/20 15:27
S10968.18	SB-10-50(4-6)_01062020	Soil	01/06/20 15:30
S10968.19	SB-10-50(6-8)_01062020	Soil	01/06/20 15:32
S10968.20	SB-10-53(6-8)_01062020	Soil	01/06/20 13:30
S10968.21	SB-DH-RW-1-27(15-17)_01072020	Soil	01/07/20 10:24
S10968.22	SB-DH-RW-1-28(15-17)_01072020	Soil	01/07/20 12:00
S10968.23	SB-DH-RW-1-25(6-8)_01072020	Soil	01/07/20 12:50
S10968.24	SB-DH-RW-1-25(6-8)_01072020 MS	Soil	01/07/20 12:50
S10968.25	SB-DH-RW-1-25(6-8)_01072020 MSD	Soil	01/07/20 12:50
S10968.26	SB-DH-RW-1-25(8-10)_01072020	Soil	01/07/20 12:52
S10968.27	SB-DH-RW-1-25(12-14)_01072020	Soil	01/07/20 12:54
S10968.28	SB-DH-RW-1-26(6-8)_01072020	Soil	01/07/20 14:58
S10968.29	SB-DH-RW-1-26(8-10)_01072020	Soil	01/07/20 15:00
S10968.30	SB-DH-RW-1-26(12-14)_01072020	Soil	01/07/20 15:02
S10968.31	SB-DH-RW-1-26(15-17)_01072020	Soil	01/07/20 15:04
S10968.32	DUP-02_01072020	Soil	01/07/20 00:01
S10968.33	SB-DH-RW-1-24(3-5)_01072020	Soil	01/07/20 16:15
S10968.34	SB-DH-RW-1-24(5-7)_01072020	Soil	01/07/20 16:20
S10968.35	SB-DH-RW-1-24(9-11)_01072020	Soil	01/07/20 16:25

Analytical Laboratory Report

Lab Sample ID: S10968.01
Sample Tag: SB-10-45(1-3)_01062020
Collected Date/Time: 01/06/2020 11:16
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	400	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.02
Sample Tag: SB-10-45(4-6)_01062020
Collected Date/Time: 01/06/2020 11:18
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	75	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:28, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	7,000		ug/kg	1000	12674-11-2	Y
PCB-1242	Not detected	7,000		ug/kg	1000	53469-21-9	Y
PCB-1221	Not detected	7,000		ug/kg	1000	11104-28-2	Y
PCB-1232	Not detected	7,000		ug/kg	1000	11141-16-5	Y
PCB-1248	Not detected	7,000		ug/kg	1000	12672-29-6	Y
PCB-1254	21,000	7,000		ug/kg	1000	11097-69-1	Y
PCB-1260	Not detected	7,000		ug/kg	1000	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S10968.03
Sample Tag: SB-10-45(6-8)_01062020
Collected Date/Time: 01/06/2020 11:20
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/13/20 17:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	2,900	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.04
Sample Tag: SB-10-49(1-3)_01062020
Collected Date/Time: 01/06/2020 13:00
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	95	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 19:16, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.05
Sample Tag: SB-10-49(4-6)_01062020
Collected Date/Time: 01/06/2020 13:02
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	2,600	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S10968.06
Sample Tag: SB-10-49(6-8)_01062020
Collected Date/Time: 01/06/2020 13:04
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/13/20 17:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	2,500	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S10968.07
Sample Tag: DUP-01_01062020
Collected Date/Time: 01/06/2020 00:01
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	5,200	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S10968.08
Sample Tag: SB-10-54(6-8)_01062020
Collected Date/Time: 01/06/2020 13:52
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Analytical Laboratory Report

Lab Sample ID: S10968.09
Sample Tag: SB-10-51(1-3)_01062020
Collected Date/Time: 01/06/2020 14:24
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Analytical Laboratory Report

Lab Sample ID: S10968.10
Sample Tag: SB-10-51(4-6)_01062020
Collected Date/Time: 01/06/2020 14:26
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Analytical Laboratory Report

Lab Sample ID: S10968.11
Sample Tag: SB-10-51(6-8)_01062020
Collected Date/Time: 01/06/2020 14:28
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Analytical Laboratory Report

Lab Sample ID: S10968.12
Sample Tag: SB-10-52(1-3)_01062020
Collected Date/Time: 01/06/2020 14:50
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Analytical Laboratory Report

Lab Sample ID: S10968.13
Sample Tag: SB-10-52(4-6)_01062020
Collected Date/Time: 01/06/2020 14:52
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Analytical Laboratory Report

Lab Sample ID: S10968.14
Sample Tag: SB-10-52(6-8)_01062020
Collected Date/Time: 01/06/2020 14:54
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Lab Sample ID: S10968.15
Sample Tag: SB-10-50(1-3)_01062020
Collected Date/Time: 01/06/2020 15:27
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Lab Sample ID: S10968.16
Sample Tag: SB-10-50(1-3)_01062020 MS
Collected Date/Time: 01/06/2020 15:27
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Lab Sample ID: S10968.17
Sample Tag: SB-10-50(1-3)_01062020 MSD
Collected Date/Time: 01/06/2020 15:27
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Lab Sample ID: S10968.18
Sample Tag: SB-10-50(4-6)_01062020
Collected Date/Time: 01/06/2020 15:30
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Lab Sample ID: S10968.19
Sample Tag: SB-10-50(6-8)_01062020
Collected Date/Time: 01/06/2020 15:32
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Lab Sample ID: S10968.20
Sample Tag: SB-10-53(6-8)_01062020
Collected Date/Time: 01/06/2020 13:30
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	75	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 17:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	2,500	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S10968.21
Sample Tag: SB-DH-RW-1-27(15-17)_01072020
Collected Date/Time: 01/07/2020 10:24
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 17:54, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	6,000		ug/kg	1000	12674-11-2	Y
PCB-1242	61,000	6,000		ug/kg	1000	53469-21-9	Y
PCB-1221	Not detected	6,000		ug/kg	1000	11104-28-2	Y
PCB-1232	Not detected	6,000		ug/kg	1000	11141-16-5	Y
PCB-1248	Not detected	6,000		ug/kg	1000	12672-29-6	Y
PCB-1254	Not detected	6,000		ug/kg	1000	11097-69-1	Y
PCB-1260	Not detected	6,000		ug/kg	1000	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.22
Sample Tag: SB-DH-RW-1-28(15-17)_01072020
Collected Date/Time: 01/07/2020 12:00
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 18:06, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.23
Sample Tag: SB-DH-RW-1-25(6-8)_01072020
Collected Date/Time: 01/07/2020 12:50
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 22:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.24
Sample Tag: SB-DH-RW-1-25(6-8)_01072020 MS
Collected Date/Time: 01/07/2020 12:50
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 22:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.25
Sample Tag: SB-DH-RW-1-25(6-8)_01072020 MSD
Collected Date/Time: 01/07/2020 12:50
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 23:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.26
Sample Tag: SB-DH-RW-1-25(8-10)_01072020
Collected Date/Time: 01/07/2020 12:52
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 19:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.27
Sample Tag: SB-DH-RW-1-25(12-14)_01072020
Collected Date/Time: 01/07/2020 12:54
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 20:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	2,300	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	Not detected	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S10968.28
Sample Tag: SB-DH-RW-1-26(6-8)_01072020
Collected Date/Time: 01/07/2020 14:58
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 19:43, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.29
Sample Tag: SB-DH-RW-1-26(8-10)_01072020
Collected Date/Time: 01/07/2020 15:00
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 16:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S10968.30
Sample Tag: SB-DH-RW-1-26(12-14)_01072020
Collected Date/Time: 01/07/2020 15:02
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 18:55, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y
PCB-1242	7,400	1,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.31
Sample Tag: SB-DH-RW-1-26(15-17)_01072020
Collected Date/Time: 01/07/2020 15:04
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 21:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	3,000		ug/kg	500	12674-11-2	Y
PCB-1242	16,000	3,000		ug/kg	500	53469-21-9	Y
PCB-1221	Not detected	3,000		ug/kg	500	11104-28-2	Y
PCB-1232	Not detected	3,000		ug/kg	500	11141-16-5	Y
PCB-1248	Not detected	3,000		ug/kg	500	12672-29-6	Y
PCB-1254	Not detected	3,000		ug/kg	500	11097-69-1	Y
PCB-1260	Not detected	3,000		ug/kg	500	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S10968.32
Sample Tag: DUP-02_01072020
Collected Date/Time: 01/07/2020 00:01
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 21:34, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y
PCB-1242	8,100	1,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.33
Sample Tag: SB-DH-RW-1-24(3-5)_01072020
Collected Date/Time: 01/07/2020 16:15
Matrix: Soil
COC Reference: 111707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 21:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	5,000	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	Not detected	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S10968.34
Sample Tag: SB-DH-RW-1-24(5-7)_01072020
Collected Date/Time: 01/07/2020 16:20
Matrix: Soil
COC Reference: 111707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 16:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	3,900	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	Not detected	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S10968.35
Sample Tag: SB-DH-RW-1-24(9-11)_01072020
Collected Date/Time: 01/07/2020 16:25
Matrix: Soil
COC Reference: 111707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 16:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	1,000	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S10968
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30006800.01904 Buick City
Submitted: 01/09/2020 14:10 Login User: SRS

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.1
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[ ] Yes	[ ] No	[X] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 4

119273

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☑ OTHER 5-DAY TAT

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
109968.01	1/6/20	11:16	SB-10-45(1-3)_01062020	S	1	1							✓
.02		11:18	SB-10-45(4-6)_01062020	S	1	1							✓
.03		11:20	SB-10-45(6-8)_01062020	S	1	1							✓
.04		13:00	SB-10-49(1-3)_01062020	S	1	1							✓
.05		13:02	SB-10-49(4-6)_01062020	S	1	1							✓
.06		13:04	SB-10-49(6-8)_01062020	S	1	1							✓
.07		—	DUP-01_01062020	S	1	1							✓

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christine Allen / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christine Allen / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi cold storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kenneth Dorsey / Arcadis	DATE 1.8.20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION	MX	DATE 1.8.20	TIME 1135
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS MEA	NOTES: TEMP ON ARRIVAL 1.7.20 1410
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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C.O.C. PAGE # 2 OF 4

119274

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
109608.08	1/6/20	13:52	SB-10-54(6-8)-01062020	S	1	1							✓	EXTRACT AND
.09		14:24	SB-10-51(1-3)-01062020	S	1	1							✓	HOLD FOR PCBs
.10		14:26	SB-10-51(4-6)-01062020	S	1	1							✓	
.11		14:28	SB-10-51(6-8)-01062020	S	1	1							✓	
.12		14:50	SB-10-52(1-3)-01062020	S	1	1							✓	
.13		14:52	SB-10-52(4-6)-01062020	S	1	1							✓	
.14		14:54	SB-10-52(6-8)-01062020	S	1	1							✓	
.15/.16/.17		15:27	SB-10-50(1-3)-01062020	S	3	3							✓	
.18		15:30	SB-10-50(4-6)-01062020	S	1	1							✓	
.19		15:32	SB-10-50(6-8)-01062020	S	1	1							✓	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christa Ulm / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christa Ulm / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	NOVI cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kari Dhu / Arcadis	DATE 1-9-20	TIME 135
RECEIVED BY: SIGNATURE/ORGANIZATION	MS	DATE 1.9.20	TIME 135

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS MS — NOTES: TEMP. ON ARRIVAL 1.9.20 1410

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS — 1/9/20 1410

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C.O.C. PAGE # 3 OF 4

113399

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
10968.20	1/6/20	13:30	SB-10-53(6-8)-01062020	S	1	1							✓	
.21 .19	1/7/20	10:24	SB-DH-RW-1-27(15-17)-01072020	S	1	1							✓	
.22 .20		12:00	SB-DH-RW-1-28(15-17)-01072020	S	1	1							✓	
23/24/25.21		12:50	SB-DH-RW-1-25(6-8)-01072020	S	3	3							✓	MS/MSD
.26 .22		12:52	SB-DH-RW-1-25(8-10)-01072020	S	1	1							✓	
.27 .23		12:54	SB-DH-RW-1-25(12-14)-01072020	S	1	1							✓	
.28 .24		14:58	SB-DH-RW-1-26(6-8)_01072020	S	1	1							✓	
.29 .25		15:00	SB-DH-RW-1-26(8-10)_01072020	S	1	1							✓	
.30 .26		15:02	SB-DH-RW-1-26(12-14)_01072020	S	1	1							✓	
.31 .27		15:04	SB-DH-RW-1-26(15-17)_01072020	S	1	1							✓	
.32	1/7/20	—	DUP-02_01072020	S	1	1							✓	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christa Allen / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christa Allen / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kara Donkin / Arcadis	DATE 1.9.20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION	MK	DATE 1.9.20	TIME 1135

SEAL NO. — SEAL INTACT YES ☐ NO ☐ INITIALS MK
SEAL NO. — SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 1.7.20 1410
1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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111707

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30506800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

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Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
10968.33	1/7/20	16:15	SB-DH-RW-1-24(3-5)_01072020	S	1	1							✓
.34	"	16:20	SB-DH-RW-1-24(5-7)_01072020	S	1	1							✓
.35	"	16:25	SB-DH-RW-1-24(9-11)_01072020	S	1	1							✓

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christin Allen / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christin Allen / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kara Dahn / Arcadis	DATE 1.9.20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION	[signature]	DATE 1.9.20	TIME 1135

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS — NOTES: TEMP. ON ARRIVAL: 1.8°C 1410
SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS — 1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S10968.01(01)
Generated on 01/16/2020

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Report produced by

Merit Laboratories, Inc.
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East Lansing, MI 48823

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Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki, Joey Barker, Mary-Catherine.Goddard

Report Summary

Lab Sample ID(s): S10968.01-S10968.35
Project: 30006800.01904 Buick City
Collected Date(s): 01/06/2020 - 01/07/2020
Submitted Date/Time: 01/09/2020 14:10
Sampled by: Caitlin Cisco
P.O. #: 30006800.01904

Table of Contents

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Maya Murshak
Technical Director

Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (35 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S10968.01	SB-10-45(1-3)_01062020	Soil	01/06/20 11:16
S10968.02	SB-10-45(4-6)_01062020	Soil	01/06/20 11:18
S10968.03	SB-10-45(6-8)_01062020	Soil	01/06/20 11:20
S10968.04	SB-10-49(1-3)_01062020	Soil	01/06/20 13:00
S10968.05	SB-10-49(4-6)_01062020	Soil	01/06/20 13:02
S10968.06	SB-10-49(6-8)_01062020	Soil	01/06/20 13:04
S10968.07	DUP-01_01062020	Soil	01/06/20 00:01
S10968.08	SB-10-54(6-8)_01062020	Soil	01/06/20 13:52
S10968.09	SB-10-51(1-3)_01062020	Soil	01/06/20 14:24
S10968.10	SB-10-51(4-6)_01062020	Soil	01/06/20 14:26
S10968.11	SB-10-51(6-8)_01062020	Soil	01/06/20 14:28
S10968.12	SB-10-52(1-3)_01062020	Soil	01/06/20 14:50
S10968.13	SB-10-52(4-6)_01062020	Soil	01/06/20 14:52
S10968.14	SB-10-52(6-8)_01062020	Soil	01/06/20 14:54
S10968.15	SB-10-50(1-3)_01062020	Soil	01/06/20 15:27
S10968.16	SB-10-50(1-3)_01062020 MS	Soil	01/06/20 15:27
S10968.17	SB-10-50(1-3)_01062020 MSD	Soil	01/06/20 15:27
S10968.18	SB-10-50(4-6)_01062020	Soil	01/06/20 15:30
S10968.19	SB-10-50(6-8)_01062020	Soil	01/06/20 15:32
S10968.20	SB-10-53(6-8)_01062020	Soil	01/06/20 13:30
S10968.21	SB-DH-RW-1-27(15-17)_01072020	Soil	01/07/20 10:24
S10968.22	SB-DH-RW-1-28(15-17)_01072020	Soil	01/07/20 12:00
S10968.23	SB-DH-RW-1-25(6-8)_01072020	Soil	01/07/20 12:50
S10968.24	SB-DH-RW-1-25(6-8)_01072020 MS	Soil	01/07/20 12:50
S10968.25	SB-DH-RW-1-25(6-8)_01072020 MSD	Soil	01/07/20 12:50
S10968.26	SB-DH-RW-1-25(8-10)_01072020	Soil	01/07/20 12:52
S10968.27	SB-DH-RW-1-25(12-14)_01072020	Soil	01/07/20 12:54
S10968.28	SB-DH-RW-1-26(6-8)_01072020	Soil	01/07/20 14:58
S10968.29	SB-DH-RW-1-26(8-10)_01072020	Soil	01/07/20 15:00
S10968.30	SB-DH-RW-1-26(12-14)_01072020	Soil	01/07/20 15:02
S10968.31	SB-DH-RW-1-26(15-17)_01072020	Soil	01/07/20 15:04
S10968.32	DUP-02_01072020	Soil	01/07/20 00:01
S10968.33	SB-DH-RW-1-24(3-5)_01072020	Soil	01/07/20 16:15
S10968.34	SB-DH-RW-1-24(5-7)_01072020	Soil	01/07/20 16:20
S10968.35	SB-DH-RW-1-24(9-11)_01072020	Soil	01/07/20 16:25

Analytical Laboratory Report

Lab Sample ID: S10968.01
Sample Tag: SB-10-45(1-3)_01062020
Collected Date/Time: 01/06/2020 11:16
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	400	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.02
Sample Tag: SB-10-45(4-6)_01062020
Collected Date/Time: 01/06/2020 11:18
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	75	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:28, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	7,000		ug/kg	1000	12674-11-2	Y
PCB-1242	Not detected	7,000		ug/kg	1000	53469-21-9	Y
PCB-1221	Not detected	7,000		ug/kg	1000	11104-28-2	Y
PCB-1232	Not detected	7,000		ug/kg	1000	11141-16-5	Y
PCB-1248	Not detected	7,000		ug/kg	1000	12672-29-6	Y
PCB-1254	21,000	7,000		ug/kg	1000	11097-69-1	Y
PCB-1260	Not detected	7,000		ug/kg	1000	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S10968.03
Sample Tag: SB-10-45(6-8)_01062020
Collected Date/Time: 01/06/2020 11:20
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/13/20 17:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	2,900	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.04
Sample Tag: SB-10-49(1-3)_01062020
Collected Date/Time: 01/06/2020 13:00
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	95	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 19:16, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.05
Sample Tag: SB-10-49(4-6)_01062020
Collected Date/Time: 01/06/2020 13:02
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	2,600	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S10968.06
Sample Tag: SB-10-49(6-8)_01062020
Collected Date/Time: 01/06/2020 13:04
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/13/20 17:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	2,500	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S10968.07
Sample Tag: DUP-01_01062020
Collected Date/Time: 01/06/2020 00:01
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	5,200	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S10968.08
Sample Tag: SB-10-54(6-8)_01062020
Collected Date/Time: 01/06/2020 13:52
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Analytical Laboratory Report

Lab Sample ID: S10968.09
Sample Tag: SB-10-51(1-3)_01062020
Collected Date/Time: 01/06/2020 14:24
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Analytical Laboratory Report

Lab Sample ID: S10968.10
Sample Tag: SB-10-51(4-6)_01062020
Collected Date/Time: 01/06/2020 14:26
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Analytical Laboratory Report

Lab Sample ID: S10968.11
Sample Tag: SB-10-51(6-8)_01062020
Collected Date/Time: 01/06/2020 14:28
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Analytical Laboratory Report

Lab Sample ID: S10968.12
Sample Tag: SB-10-52(1-3)_01062020
Collected Date/Time: 01/06/2020 14:50
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Analytical Laboratory Report

Lab Sample ID: S10968.13
Sample Tag: SB-10-52(4-6)_01062020
Collected Date/Time: 01/06/2020 14:52
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Analytical Laboratory Report

Lab Sample ID: S10968.14
Sample Tag: SB-10-52(6-8)_01062020
Collected Date/Time: 01/06/2020 14:54
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Lab Sample ID: S10968.15
Sample Tag: SB-10-50(1-3)_01062020
Collected Date/Time: 01/06/2020 15:27
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Lab Sample ID: S10968.16
Sample Tag: SB-10-50(1-3)_01062020 MS
Collected Date/Time: 01/06/2020 15:27
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Lab Sample ID: S10968.17
Sample Tag: SB-10-50(1-3)_01062020 MSD
Collected Date/Time: 01/06/2020 15:27
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Lab Sample ID: S10968.18
Sample Tag: SB-10-50(4-6)_01062020
Collected Date/Time: 01/06/2020 15:30
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Lab Sample ID: S10968.19
Sample Tag: SB-10-50(6-8)_01062020
Collected Date/Time: 01/06/2020 15:32
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Lab Sample ID: S10968.20
Sample Tag: SB-10-53(6-8)_01062020
Collected Date/Time: 01/06/2020 13:30
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	75	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 17:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	2,500	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S10968.21
Sample Tag: SB-DH-RW-1-27(15-17)_01072020
Collected Date/Time: 01/07/2020 10:24
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 17:54, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	6,000		ug/kg	1000	12674-11-2	Y
PCB-1242	61,000	6,000		ug/kg	1000	53469-21-9	Y
PCB-1221	Not detected	6,000		ug/kg	1000	11104-28-2	Y
PCB-1232	Not detected	6,000		ug/kg	1000	11141-16-5	Y
PCB-1248	Not detected	6,000		ug/kg	1000	12672-29-6	Y
PCB-1254	Not detected	6,000		ug/kg	1000	11097-69-1	Y
PCB-1260	Not detected	6,000		ug/kg	1000	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.22
Sample Tag: SB-DH-RW-1-28(15-17)_01072020
Collected Date/Time: 01/07/2020 12:00
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 18:06, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.23
Sample Tag: SB-DH-RW-1-25(6-8)_01072020
Collected Date/Time: 01/07/2020 12:50
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 22:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.24
Sample Tag: SB-DH-RW-1-25(6-8)_01072020 MS
Collected Date/Time: 01/07/2020 12:50
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 22:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.25
Sample Tag: SB-DH-RW-1-25(6-8)_01072020 MSD
Collected Date/Time: 01/07/2020 12:50
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 23:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.26
Sample Tag: SB-DH-RW-1-25(8-10)_01072020
Collected Date/Time: 01/07/2020 12:52
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 19:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.27
Sample Tag: SB-DH-RW-1-25(12-14)_01072020
Collected Date/Time: 01/07/2020 12:54
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 20:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	2,300	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	Not detected	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S10968.28
Sample Tag: SB-DH-RW-1-26(6-8)_01072020
Collected Date/Time: 01/07/2020 14:58
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 19:43, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.29
Sample Tag: SB-DH-RW-1-26(8-10)_01072020
Collected Date/Time: 01/07/2020 15:00
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 16:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S10968.30
Sample Tag: SB-DH-RW-1-26(12-14)_01072020
Collected Date/Time: 01/07/2020 15:02
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 18:55, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y
PCB-1242	7,400	1,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.31
Sample Tag: SB-DH-RW-1-26(15-17)_01072020
Collected Date/Time: 01/07/2020 15:04
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 21:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	3,000		ug/kg	500	12674-11-2	Y
PCB-1242	16,000	3,000		ug/kg	500	53469-21-9	Y
PCB-1221	Not detected	3,000		ug/kg	500	11104-28-2	Y
PCB-1232	Not detected	3,000		ug/kg	500	11141-16-5	Y
PCB-1248	Not detected	3,000		ug/kg	500	12672-29-6	Y
PCB-1254	Not detected	3,000		ug/kg	500	11097-69-1	Y
PCB-1260	Not detected	3,000		ug/kg	500	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S10968.32
Sample Tag: DUP-02_01072020
Collected Date/Time: 01/07/2020 00:01
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 21:34, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y
PCB-1242	8,100	1,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.33
Sample Tag: SB-DH-RW-1-24(3-5)_01072020
Collected Date/Time: 01/07/2020 16:15
Matrix: Soil
COC Reference: 111707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 21:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	5,000	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	Not detected	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S10968.34
Sample Tag: SB-DH-RW-1-24(5-7)_01072020
Collected Date/Time: 01/07/2020 16:20
Matrix: Soil
COC Reference: 111707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 16:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	3,900	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	Not detected	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S10968.35
Sample Tag: SB-DH-RW-1-24(9-11)_01072020
Collected Date/Time: 01/07/2020 16:25
Matrix: Soil
COC Reference: 111707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 16:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	1,000	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S10968
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30006800.01904 Buick City
Submitted: 01/09/2020 14:10 Login User: SRS

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.1
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[ ] Yes	[ ] No	[X] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 4

119273

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☑ OTHER 5-DAY TAT

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
109968.01	1/6/20	11:16	SB-10-45(1-3)_01062020	S	1	1							✓
.02		11:18	SB-10-45(4-6)_01062020	S	1	1							✓
.03		11:20	SB-10-45(6-8)_01062020	S	1	1							✓
.04		13:00	SB-10-49(1-3)_01062020	S	1	1							✓
.05		13:02	SB-10-49(4-6)_01062020	S	1	1							✓
.06		13:04	SB-10-49(6-8)_01062020	S	1	1							✓
.07		—	DUP-01_01062020	S	1	1							✓

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christine Allen / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christine Allen / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi cold storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kenneth Dorsey / Arcadis	DATE 1.8.20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION	MX	DATE 1.8.20	TIME 1135
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS MEA	NOTES: TEMP ON ARRIVAL 1.7.20 1410
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
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www.meritlabs.com

C.O.C. PAGE # 2 OF 4

119274

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
109608.08	1/6/20	13:52	SB-10-54(6-8)-01062020	S	1	1							✓	EXTRACT AND
.09		14:24	SB-10-51(1-3)-01062020	S	1	1							✓	HOLD FOR PCBs
.10		14:26	SB-10-51(4-6)-01062020	S	1	1							✓	
.11		14:28	SB-10-51(6-8)-01062020	S	1	1							✓	
.12		14:50	SB-10-52(1-3)-01062020	S	1	1							✓	
.13		14:52	SB-10-52(4-6)-01062020	S	1	1							✓	
.14		14:54	SB-10-52(6-8)-01062020	S	1	1							✓	
.15/.16/.17		15:27	SB-10-50(1-3)-01062020	S	3	3							✓	
.18		15:30	SB-10-50(4-6)-01062020	S	1	1							✓	
.19		15:32	SB-10-50(6-8)-01062020	S	1	1							✓	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christa Ulm / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christa Ulm / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	NOVI cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kari Dhu / Arcadis	DATE 1-9-20	TIME 135
RECEIVED BY: SIGNATURE/ORGANIZATION	MS	DATE 1.9.20	TIME 135

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS MS — NOTES: TEMP. ON ARRIVAL 1.9.20 1410

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS — 1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.
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C.O.C. PAGE # 3 OF 4

113399

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
10968.20	1/6/20	13:30	SB-10-53(6-8)-01062020	S	1	1							✓	
.21 .19	1/7/20	10:24	SB-DH-RW-1-27(15-17)-01072020	S	1	1							✓	
.22 .20		12:00	SB-DH-RW-1-28(15-17)-01072020	S	1	1							✓	
23/24/25.21		12:50	SB-DH-RW-1-25(6-8)-01072020	S	3	3							✓	MS/MSD
.26 .22		12:52	SB-DH-RW-1-25(8-10)-01072020	S	1	1							✓	
.27 .23		12:54	SB-DH-RW-1-25(12-14)-01072020	S	1	1							✓	
.28 .24		14:58	SB-DH-RW-1-26(6-8)_01072020	S	1	1							✓	
.29 .25		15:00	SB-DH-RW-1-26(8-10)_01072020	S	1	1							✓	
.30 .26		15:02	SB-DH-RW-1-26(12-14)_01072020	S	1	1							✓	
.31 .27		15:04	SB-DH-RW-1-26(15-17)_01072020	S	1	1							✓	
.32	1/7/20	—	DUP-02_01072020	S	1	1							✓	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christa Allen / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christa Allen / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kara Donkin / Arcadis	DATE 1.9.20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION	MK	DATE 1.9.20	TIME 1135

SEAL NO. — SEAL INTACT YES ☐ NO ☐ INITIALS MK
SEAL NO. — SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 1.7.20 1410
1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 4 OF 4

111707

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30506800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
10968.33	1/7/20	16:15	SB-DH-RW-1-24(3-5)_01072020	S	1	1							✓
.34	"	16:20	SB-DH-RW-1-24(5-7)_01072020	S	1	1							✓
.35	"	16:25	SB-DH-RW-1-24(9-11)_01072020	S	1	1							✓

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christin Allen / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christin Allen / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kara Dahn / Arcadis	DATE 1.9.20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION	[signature]	DATE 1.9.20	TIME 1135

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS — NOTES: TEMP. ON ARRIVAL: 1.8°C 1410
SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS — 1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Supplemental Report

Report ID: S10968.01(02)
Generated on 01/22/2020

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

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Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki, Joey Barker, Mary-Catherine.Goddard

Report Summary

Lab Sample ID(s): S10968.01-S10968.35
Project: 30006800.01904 Buick City
Collected Date(s): 01/06/2020 - 01/07/2020
Submitted Date/Time: 01/09/2020 14:10
Sampled by: Caitlin Cisco
P.O. #: 30006800.01904

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Sample Summary (Page 5)

Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

Analyses added per client request.

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (35 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S10968.01	SB-10-45(1-3)_01062020	Soil	01/06/20 11:16
S10968.02	SB-10-45(4-6)_01062020	Soil	01/06/20 11:18
S10968.03	SB-10-45(6-8)_01062020	Soil	01/06/20 11:20
S10968.04	SB-10-49(1-3)_01062020	Soil	01/06/20 13:00
S10968.05	SB-10-49(4-6)_01062020	Soil	01/06/20 13:02
S10968.06	SB-10-49(6-8)_01062020	Soil	01/06/20 13:04
S10968.07	DUP-01_01062020	Soil	01/06/20 00:01
S10968.08	SB-10-54(6-8)_01062020	Soil	01/06/20 13:52
S10968.09	SB-10-51(1-3)_01062020	Soil	01/06/20 14:24
S10968.10	SB-10-51(4-6)_01062020	Soil	01/06/20 14:26
S10968.11	SB-10-51(6-8)_01062020	Soil	01/06/20 14:28
S10968.12	SB-10-52(1-3)_01062020	Soil	01/06/20 14:50
S10968.13	SB-10-52(4-6)_01062020	Soil	01/06/20 14:52
S10968.14	SB-10-52(6-8)_01062020	Soil	01/06/20 14:54
S10968.15	SB-10-50(1-3)_01062020	Soil	01/06/20 15:27
S10968.16	SB-10-50(1-3)_01062020 MS	Soil	01/06/20 15:27
S10968.17	SB-10-50(1-3)_01062020 MSD	Soil	01/06/20 15:27
S10968.18	SB-10-50(4-6)_01062020	Soil	01/06/20 15:30
S10968.19	SB-10-50(6-8)_01062020	Soil	01/06/20 15:32
S10968.20	SB-10-53(6-8)_01062020	Soil	01/06/20 13:30
S10968.21	SB-DH-RW-1-27(15-17)_01072020	Soil	01/07/20 10:24
S10968.22	SB-DH-RW-1-28(15-17)_01072020	Soil	01/07/20 12:00
S10968.23	SB-DH-RW-1-25(6-8)_01072020	Soil	01/07/20 12:50
S10968.24	SB-DH-RW-1-25(6-8)_01072020 MS	Soil	01/07/20 12:50
S10968.25	SB-DH-RW-1-25(6-8)_01072020 MSD	Soil	01/07/20 12:50
S10968.26	SB-DH-RW-1-25(8-10)_01072020	Soil	01/07/20 12:52
S10968.27	SB-DH-RW-1-25(12-14)_01072020	Soil	01/07/20 12:54
S10968.28	SB-DH-RW-1-26(6-8)_01072020	Soil	01/07/20 14:58
S10968.29	SB-DH-RW-1-26(8-10)_01072020	Soil	01/07/20 15:00
S10968.30	SB-DH-RW-1-26(12-14)_01072020	Soil	01/07/20 15:02
S10968.31	SB-DH-RW-1-26(15-17)_01072020	Soil	01/07/20 15:04
S10968.32	DUP-02_01072020	Soil	01/07/20 00:01
S10968.33	SB-DH-RW-1-24(3-5)_01072020	Soil	01/07/20 16:15
S10968.34	SB-DH-RW-1-24(5-7)_01072020	Soil	01/07/20 16:20
S10968.35	SB-DH-RW-1-24(9-11)_01072020	Soil	01/07/20 16:25

Lab Sample ID: S10968.01
Sample Tag: SB-10-45(1-3)_01062020
Collected Date/Time: 01/06/2020 11:16
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	400	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.02
Sample Tag: SB-10-45(4-6)_01062020
Collected Date/Time: 01/06/2020 11:18
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	75	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:28, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	7,000		ug/kg	1000	12674-11-2	Y
PCB-1242	Not detected	7,000		ug/kg	1000	53469-21-9	Y
PCB-1221	Not detected	7,000		ug/kg	1000	11104-28-2	Y
PCB-1232	Not detected	7,000		ug/kg	1000	11141-16-5	Y
PCB-1248	Not detected	7,000		ug/kg	1000	12672-29-6	Y
PCB-1254	21,000	7,000		ug/kg	1000	11097-69-1	Y
PCB-1260	Not detected	7,000		ug/kg	1000	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.03
Sample Tag: SB-10-45(6-8)_01062020
Collected Date/Time: 01/06/2020 11:20
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/13/20 17:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	2,900	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.04
Sample Tag: SB-10-49(1-3)_01062020
Collected Date/Time: 01/06/2020 13:00
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	95	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 19:16, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.05
Sample Tag: SB-10-49(4-6)_01062020
Collected Date/Time: 01/06/2020 13:02
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	2,600	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.06
Sample Tag: SB-10-49(6-8)_01062020
Collected Date/Time: 01/06/2020 13:04
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/13/20 17:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	2,500	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.07
Sample Tag: DUP-01_01062020
Collected Date/Time: 01/06/2020 00:01
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	5,200	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.08
Sample Tag: SB-10-54(6-8)_01062020
Collected Date/Time: 01/06/2020 13:52
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/21/20 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	72	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/21/20 16:47, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.09
Sample Tag: SB-10-51(1-3)_01062020
Collected Date/Time: 01/06/2020 14:24
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/21/20 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/21/20 16:30, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.10
Sample Tag: SB-10-51(4-6)_01062020
Collected Date/Time: 01/06/2020 14:26
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/21/20 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/21/20 16:59, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	700	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S10968.11
Sample Tag: SB-10-51(6-8)_01062020
Collected Date/Time: 01/06/2020 14:28
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/21/20 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	67	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/21/20 17:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	700		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	700		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	700		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	700		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	700		ug/kg	100	12672-29-6	Y
PCB-1254	4,300	700		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	700		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.12
Sample Tag: SB-10-52(1-3)_01062020
Collected Date/Time: 01/06/2020 14:50
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Lab Sample ID: S10968.13
Sample Tag: SB-10-52(4-6)_01062020
Collected Date/Time: 01/06/2020 14:52
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Lab Sample ID: S10968.14
Sample Tag: SB-10-52(6-8)_01062020
Collected Date/Time: 01/06/2020 14:54
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Lab Sample ID: S10968.15
Sample Tag: SB-10-50(1-3)_01062020
Collected Date/Time: 01/06/2020 15:27
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Lab Sample ID: S10968.16

Sample Tag: SB-10-50(1-3)_01062020 MS

Collected Date/Time: 01/06/2020 15:27

Matrix: Soil

COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Lab Sample ID: S10968.17

Sample Tag: SB-10-50(1-3)_01062020 MSD

Collected Date/Time: 01/06/2020 15:27

Matrix: Soil

COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Lab Sample ID: S10968.18
Sample Tag: SB-10-50(4-6)_01062020
Collected Date/Time: 01/06/2020 15:30
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Lab Sample ID: S10968.19

Sample Tag: SB-10-50(6-8)_01062020

Collected Date/Time: 01/06/2020 15:32

Matrix: Soil

COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Lab Sample ID: S10968.20
Sample Tag: SB-10-53(6-8)_01062020
Collected Date/Time: 01/06/2020 13:30
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	75	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 17:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	2,500	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S10968.21
Sample Tag: SB-DH-RW-1-27(15-17)_01072020
Collected Date/Time: 01/07/2020 10:24
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 17:54, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	6,000		ug/kg	1000	12674-11-2	Y
PCB-1242	61,000	6,000		ug/kg	1000	53469-21-9	Y
PCB-1221	Not detected	6,000		ug/kg	1000	11104-28-2	Y
PCB-1232	Not detected	6,000		ug/kg	1000	11141-16-5	Y
PCB-1248	Not detected	6,000		ug/kg	1000	12672-29-6	Y
PCB-1254	Not detected	6,000		ug/kg	1000	11097-69-1	Y
PCB-1260	Not detected	6,000		ug/kg	1000	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.22
Sample Tag: SB-DH-RW-1-28(15-17)_01072020
Collected Date/Time: 01/07/2020 12:00
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 18:06, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.23
Sample Tag: SB-DH-RW-1-25(6-8)_01072020
Collected Date/Time: 01/07/2020 12:50
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 22:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.24

Sample Tag: SB-DH-RW-1-25(6-8)_01072020 MS

Collected Date/Time: 01/07/2020 12:50

Matrix: Soil

COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 22:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.25

Sample Tag: SB-DH-RW-1-25(6-8)_01072020 MSD

Collected Date/Time: 01/07/2020 12:50

Matrix: Soil

COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 23:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.26
Sample Tag: SB-DH-RW-1-25(8-10)_01072020
Collected Date/Time: 01/07/2020 12:52
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 19:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.27
Sample Tag: SB-DH-RW-1-25(12-14)_01072020
Collected Date/Time: 01/07/2020 12:54
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 20:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	2,300	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	Not detected	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Lab Sample ID: S10968.28
Sample Tag: SB-DH-RW-1-26(6-8)_01072020
Collected Date/Time: 01/07/2020 14:58
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 19:43, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.29
Sample Tag: SB-DH-RW-1-26(8-10)_01072020
Collected Date/Time: 01/07/2020 15:00
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 16:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.30
Sample Tag: SB-DH-RW-1-26(12-14)_01072020
Collected Date/Time: 01/07/2020 15:02
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 18:55, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y
PCB-1242	7,400	1,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.31
Sample Tag: SB-DH-RW-1-26(15-17)_01072020
Collected Date/Time: 01/07/2020 15:04
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 21:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	3,000		ug/kg	500	12674-11-2	Y
PCB-1242	16,000	3,000		ug/kg	500	53469-21-9	Y
PCB-1221	Not detected	3,000		ug/kg	500	11104-28-2	Y
PCB-1232	Not detected	3,000		ug/kg	500	11141-16-5	Y
PCB-1248	Not detected	3,000		ug/kg	500	12672-29-6	Y
PCB-1254	Not detected	3,000		ug/kg	500	11097-69-1	Y
PCB-1260	Not detected	3,000		ug/kg	500	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.32
Sample Tag: DUP-02_01072020
Collected Date/Time: 01/07/2020 00:01
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 21:34, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y
PCB-1242	8,100	1,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.33
Sample Tag: SB-DH-RW-1-24(3-5)_01072020
Collected Date/Time: 01/07/2020 16:15
Matrix: Soil
COC Reference: 111707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 21:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	5,000	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	Not detected	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.34
Sample Tag: SB-DH-RW-1-24(5-7)_01072020
Collected Date/Time: 01/07/2020 16:20
Matrix: Soil
COC Reference: 111707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 16:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	3,900	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	Not detected	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.35

Sample Tag: SB-DH-RW-1-24(9-11)_01072020

Collected Date/Time: 01/07/2020 16:25

Matrix: Soil

COC Reference: 111707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 16:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	1,000	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S10968
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30006800.01904 Buick City
Submitted: 01/09/2020 14:10 Login User: SRS

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.1
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[ ] Yes	[ ] No	[X] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 4

119273

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☑ OTHER 5-DAY TAT

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
109968.01	1/6/20	11:16	SB-10-45(1-3)_01062020	S	1	1							✓
.02		11:18	SB-10-45(4-6)_01062020	S	1	1							✓
.03		11:20	SB-10-45(6-8)_01062020	S	1	1							✓
.04		13:00	SB-10-49(1-3)_01062020	S	1	1							✓
.05		13:02	SB-10-49(4-6)_01062020	S	1	1							✓
.06		13:04	SB-10-49(6-8)_01062020	S	1	1							✓
.07		—	DUP-01_01062020	S	1	1							✓

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christine Allen / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christine Allen / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi cold storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kenneth Dorsey / Arcadis	DATE 1.8.20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION	MX	DATE 1.8.20	TIME 1135
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS MEA	NOTES: TEMP ON ARRIVAL 1.7.20 1410
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
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C.O.C. PAGE # 2 OF 4

119274

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
109608.08	1/6/20	13:52	SB-10-54(6-8)-01062020	S	1	1							✓	EXTRACT AND
.09		14:24	SB-10-51(1-3)-01062020	S	1	1							✓	HOLD FOR PCBs
.10		14:26	SB-10-51(4-6)-01062020	S	1	1							✓	
.11		14:28	SB-10-51(6-8)-01062020	S	1	1							✓	
.12		14:50	SB-10-52(1-3)-01062020	S	1	1							✓	
.13		14:52	SB-10-52(4-6)-01062020	S	1	1							✓	
.14		14:54	SB-10-52(6-8)-01062020	S	1	1							✓	
.15/.16/.17		15:27	SB-10-50(1-3)-01062020	S	3	3							✓	
.18		15:30	SB-10-50(4-6)-01062020	S	1	1							✓	
.19		15:32	SB-10-50(6-8)-01062020	S	1	1							✓	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christa Ulm / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christa Ulm / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	NOVI cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kari Dhu / Arcadis	DATE 1-9-20	TIME 135
RECEIVED BY: SIGNATURE/ORGANIZATION	MS	DATE 1.9.20	TIME 135

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS MS — NOTES: TEMP. ON ARRIVAL 1.9.20 1410

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS — 1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.
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C.O.C. PAGE # 3 OF 4

113399

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
10968.20	1/6/20	13:30	SB-10-53(6-8)-01062020	S	1	1							✓	
.21 .19	1/7/20	10:24	SB-DH-RW-1-27(15-17)-01072020	S	1	1							✓	
.22 .20		12:00	SB-DH-RW-1-28(15-17)-01072020	S	1	1							✓	
23/24/25.21		12:50	SB-DH-RW-1-25(6-8)-01072020	S	3	3							✓	MS/MSD
.26 .22		12:52	SB-DH-RW-1-25(8-10)-01072020	S	1	1							✓	
.27 .23		12:54	SB-DH-RW-1-25(12-14)-01072020	S	1	1							✓	
.28 .24		14:58	SB-DH-RW-1-26(6-8)_01072020	S	1	1							✓	
.29 .25		15:00	SB-DH-RW-1-26(8-10)_01072020	S	1	1							✓	
.30 .26		15:02	SB-DH-RW-1-26(12-14)_01072020	S	1	1							✓	
.31 .27		15:04	SB-DH-RW-1-26(15-17)_01072020	S	1	1							✓	
.32	1/7/20	—	DUP-02_01072020	S	1	1							✓	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christa Allen / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christa Allen / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kara Donkin / Arcadis	DATE 1.9.20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION	MK	DATE 1.9.20	TIME 1135

SEAL NO. — SEAL INTACT YES ☐ NO ☐ INITIALS MK
SEAL NO. — SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 1.7.20 1410
1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

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C.O.C. PAGE # 4 OF 4

111707

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30506800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
10968.33	1/7/20	16:15	SB-DH-RW-1-24(3-5)_01072020	S	1	1							✓
.34	"	16:20	SB-DH-RW-1-24(5-7)_01072020	S	1	1							✓
.35	"	16:25	SB-DH-RW-1-24(9-11)_01072020	S	1	1							✓

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christin Allen / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christin Allen / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kara Dahn / Arcadis	DATE 1.9.20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION	[signature]	DATE 1.9.20	TIME 1135

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS — NOTES: TEMP. ON ARRIVAL: 1.8°C 1410
SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS — 1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Supplemental Report

Report ID: S10968.01(03)
Generated on 01/24/2020

Report to

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Report Summary

Lab Sample ID(s): S10968.01-S10968.35
Project: 30006800.01904 Buick City
Collected Date(s): 01/06/2020 - 01/07/2020
Submitted Date/Time: 01/09/2020 14:10
Sampled by: Caitlin Cisco
P.O. #: 30006800.01904

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

PCBs added to samples .12-.19 per client request.

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (35 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S10968.01	SB-10-45(1-3)_01062020	Soil	01/06/20 11:16
S10968.02	SB-10-45(4-6)_01062020	Soil	01/06/20 11:18
S10968.03	SB-10-45(6-8)_01062020	Soil	01/06/20 11:20
S10968.04	SB-10-49(1-3)_01062020	Soil	01/06/20 13:00
S10968.05	SB-10-49(4-6)_01062020	Soil	01/06/20 13:02
S10968.06	SB-10-49(6-8)_01062020	Soil	01/06/20 13:04
S10968.07	DUP-01_01062020	Soil	01/06/20 00:01
S10968.08	SB-10-54(6-8)_01062020	Soil	01/06/20 13:52
S10968.09	SB-10-51(1-3)_01062020	Soil	01/06/20 14:24
S10968.10	SB-10-51(4-6)_01062020	Soil	01/06/20 14:26
S10968.11	SB-10-51(6-8)_01062020	Soil	01/06/20 14:28
S10968.12	SB-10-52(1-3)_01062020	Soil	01/06/20 14:50
S10968.13	SB-10-52(4-6)_01062020	Soil	01/06/20 14:52
S10968.14	SB-10-52(6-8)_01062020	Soil	01/06/20 14:54
S10968.15	SB-10-50(1-3)_01062020	Soil	01/06/20 15:27
S10968.16	SB-10-50(1-3)_01062020 MS	Soil	01/06/20 15:27
S10968.17	SB-10-50(1-3)_01062020 MSD	Soil	01/06/20 15:27
S10968.18	SB-10-50(4-6)_01062020	Soil	01/06/20 15:30
S10968.19	SB-10-50(6-8)_01062020	Soil	01/06/20 15:32
S10968.20	SB-10-53(6-8)_01062020	Soil	01/06/20 13:30
S10968.21	SB-DH-RW-1-27(15-17)_01072020	Soil	01/07/20 10:24
S10968.22	SB-DH-RW-1-28(15-17)_01072020	Soil	01/07/20 12:00
S10968.23	SB-DH-RW-1-25(6-8)_01072020	Soil	01/07/20 12:50
S10968.24	SB-DH-RW-1-25(6-8)_01072020 MS	Soil	01/07/20 12:50
S10968.25	SB-DH-RW-1-25(6-8)_01072020 MSD	Soil	01/07/20 12:50
S10968.26	SB-DH-RW-1-25(8-10)_01072020	Soil	01/07/20 12:52
S10968.27	SB-DH-RW-1-25(12-14)_01072020	Soil	01/07/20 12:54
S10968.28	SB-DH-RW-1-26(6-8)_01072020	Soil	01/07/20 14:58
S10968.29	SB-DH-RW-1-26(8-10)_01072020	Soil	01/07/20 15:00
S10968.30	SB-DH-RW-1-26(12-14)_01072020	Soil	01/07/20 15:02
S10968.31	SB-DH-RW-1-26(15-17)_01072020	Soil	01/07/20 15:04
S10968.32	DUP-02_01072020	Soil	01/07/20 00:01
S10968.33	SB-DH-RW-1-24(3-5)_01072020	Soil	01/07/20 16:15
S10968.34	SB-DH-RW-1-24(5-7)_01072020	Soil	01/07/20 16:20
S10968.35	SB-DH-RW-1-24(9-11)_01072020	Soil	01/07/20 16:25

Lab Sample ID: S10968.01
Sample Tag: SB-10-45(1-3)_01062020
Collected Date/Time: 01/06/2020 11:16
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	400	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.02
Sample Tag: SB-10-45(4-6)_01062020
Collected Date/Time: 01/06/2020 11:18
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	75	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:28, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	7,000		ug/kg	1000	12674-11-2	Y
PCB-1242	Not detected	7,000		ug/kg	1000	53469-21-9	Y
PCB-1221	Not detected	7,000		ug/kg	1000	11104-28-2	Y
PCB-1232	Not detected	7,000		ug/kg	1000	11141-16-5	Y
PCB-1248	Not detected	7,000		ug/kg	1000	12672-29-6	Y
PCB-1254	21,000	7,000		ug/kg	1000	11097-69-1	Y
PCB-1260	Not detected	7,000		ug/kg	1000	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.03
Sample Tag: SB-10-45(6-8)_01062020
Collected Date/Time: 01/06/2020 11:20
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/13/20 17:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	2,900	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.04
Sample Tag: SB-10-49(1-3)_01062020
Collected Date/Time: 01/06/2020 13:00
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	95	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 19:16, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.05
Sample Tag: SB-10-49(4-6)_01062020
Collected Date/Time: 01/06/2020 13:02
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	2,600	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.06
Sample Tag: SB-10-49(6-8)_01062020
Collected Date/Time: 01/06/2020 13:04
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/13/20 17:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	2,500	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.07
Sample Tag: DUP-01_01062020
Collected Date/Time: 01/06/2020 00:01
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	5,200	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.08
Sample Tag: SB-10-54(6-8)_01062020
Collected Date/Time: 01/06/2020 13:52
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/21/20 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	72	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/21/20 16:47, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.09
Sample Tag: SB-10-51(1-3)_01062020
Collected Date/Time: 01/06/2020 14:24
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/21/20 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/21/20 16:30, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.10
Sample Tag: SB-10-51(4-6)_01062020
Collected Date/Time: 01/06/2020 14:26
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/21/20 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/21/20 16:59, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	700	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S10968.11
Sample Tag: SB-10-51(6-8)_01062020
Collected Date/Time: 01/06/2020 14:28
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/21/20 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	67	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/21/20 17:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	700		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	700		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	700		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	700		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	700		ug/kg	100	12672-29-6	Y
PCB-1254	4,300	700		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	700		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.12
Sample Tag: SB-10-52(1-3)_01062020
Collected Date/Time: 01/06/2020 14:50
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/23/20 13:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/23/20 20:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	400	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.13
Sample Tag: SB-10-52(4-6)_01062020
Collected Date/Time: 01/06/2020 14:52
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/23/20 13:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/23/20 18:53, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.14
Sample Tag: SB-10-52(6-8)_01062020
Collected Date/Time: 01/06/2020 14:54
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/23/20 13:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/23/20 19:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	1,300	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S10968.15
Sample Tag: SB-10-50(1-3)_01062020
Collected Date/Time: 01/06/2020 15:27
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/23/20 13:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/23/20 17:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.16
Sample Tag: SB-10-50(1-3)_01062020 MS
Collected Date/Time: 01/06/2020 15:27
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/23/20 13:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/23/20 17:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	20	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	20	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.17
Sample Tag: SB-10-50(1-3)_01062020 MSD
Collected Date/Time: 01/06/2020 15:27
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/23/20 13:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/23/20 18:03, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	20	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.18
Sample Tag: SB-10-50(4-6)_01062020
Collected Date/Time: 01/06/2020 15:30
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/23/20 13:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/23/20 20:34, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.19
Sample Tag: SB-10-50(6-8)_01062020
Collected Date/Time: 01/06/2020 15:32
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/23/20 13:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/23/20 20:10, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000		ug/kg	300	12674-11-2	Y
PCB-1242	Not detected	2,000		ug/kg	300	53469-21-9	Y
PCB-1221	Not detected	2,000		ug/kg	300	11104-28-2	Y
PCB-1232	Not detected	2,000		ug/kg	300	11141-16-5	Y
PCB-1248	Not detected	2,000		ug/kg	300	12672-29-6	Y
PCB-1254	9,000	2,000		ug/kg	300	11097-69-1	Y
PCB-1260	Not detected	2,000		ug/kg	300	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.20
Sample Tag: SB-10-53(6-8)_01062020
Collected Date/Time: 01/06/2020 13:30
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	75	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 17:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	2,500	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S10968.21
Sample Tag: SB-DH-RW-1-27(15-17)_01072020
Collected Date/Time: 01/07/2020 10:24
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 17:54, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	6,000		ug/kg	1000	12674-11-2	Y
PCB-1242	61,000	6,000		ug/kg	1000	53469-21-9	Y
PCB-1221	Not detected	6,000		ug/kg	1000	11104-28-2	Y
PCB-1232	Not detected	6,000		ug/kg	1000	11141-16-5	Y
PCB-1248	Not detected	6,000		ug/kg	1000	12672-29-6	Y
PCB-1254	Not detected	6,000		ug/kg	1000	11097-69-1	Y
PCB-1260	Not detected	6,000		ug/kg	1000	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.22
Sample Tag: SB-DH-RW-1-28(15-17)_01072020
Collected Date/Time: 01/07/2020 12:00
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 18:06, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.23
Sample Tag: SB-DH-RW-1-25(6-8)_01072020
Collected Date/Time: 01/07/2020 12:50
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 22:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.24

Sample Tag: SB-DH-RW-1-25(6-8)_01072020 MS

Collected Date/Time: 01/07/2020 12:50

Matrix: Soil

COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 22:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.25

Sample Tag: SB-DH-RW-1-25(6-8)_01072020 MSD

Collected Date/Time: 01/07/2020 12:50

Matrix: Soil

COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 23:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.26

Sample Tag: SB-DH-RW-1-25(8-10)_01072020

Collected Date/Time: 01/07/2020 12:52

Matrix: Soil

COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 19:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.27
Sample Tag: SB-DH-RW-1-25(12-14)_01072020
Collected Date/Time: 01/07/2020 12:54
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 20:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	2,300	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	Not detected	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Lab Sample ID: S10968.28
Sample Tag: SB-DH-RW-1-26(6-8)_01072020
Collected Date/Time: 01/07/2020 14:58
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 19:43, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.29
Sample Tag: SB-DH-RW-1-26(8-10)_01072020
Collected Date/Time: 01/07/2020 15:00
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 16:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.30
Sample Tag: SB-DH-RW-1-26(12-14)_01072020
Collected Date/Time: 01/07/2020 15:02
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 18:55, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y
PCB-1242	7,400	1,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.31
Sample Tag: SB-DH-RW-1-26(15-17)_01072020
Collected Date/Time: 01/07/2020 15:04
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 21:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	3,000		ug/kg	500	12674-11-2	Y
PCB-1242	16,000	3,000		ug/kg	500	53469-21-9	Y
PCB-1221	Not detected	3,000		ug/kg	500	11104-28-2	Y
PCB-1232	Not detected	3,000		ug/kg	500	11141-16-5	Y
PCB-1248	Not detected	3,000		ug/kg	500	12672-29-6	Y
PCB-1254	Not detected	3,000		ug/kg	500	11097-69-1	Y
PCB-1260	Not detected	3,000		ug/kg	500	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.32
Sample Tag: DUP-02_01072020
Collected Date/Time: 01/07/2020 00:01
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 21:34, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y
PCB-1242	8,100	1,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.33
Sample Tag: SB-DH-RW-1-24(3-5)_01072020
Collected Date/Time: 01/07/2020 16:15
Matrix: Soil
COC Reference: 111707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 21:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	5,000	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	Not detected	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.34
Sample Tag: SB-DH-RW-1-24(5-7)_01072020
Collected Date/Time: 01/07/2020 16:20
Matrix: Soil
COC Reference: 111707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 16:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	3,900	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	Not detected	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.35

Sample Tag: SB-DH-RW-1-24(9-11)_01072020

Collected Date/Time: 01/07/2020 16:25

Matrix: Soil

COC Reference: 111707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 16:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	1,000	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S10968
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30006800.01904 Buick City
Submitted: 01/09/2020 14:10 Login User: SRS

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.1
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[ ] Yes	[ ] No	[X] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 4

119273

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☑ OTHER 5-DAY TAT

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
109968.01	1/6/20	11:16	SB-10-45(1-3)_01062020	S	1	1							✓
.02		11:18	SB-10-45(4-6)_01062020	S	1	1							✓
.03		11:20	SB-10-45(6-8)_01062020	S	1	1							✓
.04		13:00	SB-10-49(1-3)_01062020	S	1	1							✓
.05		13:02	SB-10-49(4-6)_01062020	S	1	1							✓
.06		13:04	SB-10-49(6-8)_01062020	S	1	1							✓
.07		—	DUP-01_01062020	S	1	1							✓

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christine Allen / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christine Allen / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi cold storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kenneth Dorsey / Arcadis	DATE 1.8.20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION	MX	DATE 1.8.20	TIME 1135
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS MEA	NOTES: TEMP ON ARRIVAL 1.7.20 1410
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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C.O.C. PAGE # 2 OF 4

119274

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
109608.08	1/6/20	13:52	SB-10-54(6-8)-01062020	S	1	1							✓	EXTRACT AND
.09		14:24	SB-10-51(1-3)-01062020	S	1	1							✓	HOLD FOR PCBs
.10		14:26	SB-10-51(4-6)-01062020	S	1	1							✓	
.11		14:28	SB-10-51(6-8)-01062020	S	1	1							✓	
.12		14:50	SB-10-52(1-3)-01062020	S	1	1							✓	
.13		14:52	SB-10-52(4-6)-01062020	S	1	1							✓	
.14		14:54	SB-10-52(6-8)-01062020	S	1	1							✓	
.15/.16/.17		15:27	SB-10-50(1-3)-01062020	S	3	3							✓	
.18		15:30	SB-10-50(4-6)-01062020	S	1	1							✓	
.19		15:32	SB-10-50(6-8)-01062020	S	1	1							✓	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christa Ulm / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christa Ulm / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	NOVI cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kari Dhu / Arcadis	DATE 1-9-20	TIME 135
RECEIVED BY: SIGNATURE/ORGANIZATION	MS	DATE 1.9.20	TIME 135

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS MS — NOTES: TEMP. ON ARRIVAL 1.9.20 1410

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS — 1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 3 OF 4

113399

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
10968.20	1/6/20	13:30	SB-10-53(6-8)-01062020	S	1	1							✓	
.21 .19	1/7/20	10:24	SB-DH-RW-1-27(15-17)-01072020	S	1	1							✓	
.22 .20		12:00	SB-DH-RW-1-28(15-17)-01072020	S	1	1							✓	
23/24/25.21		12:50	SB-DH-RW-1-25(6-8)-01072020	S	3	3							✓	MS/MSD
.26 .22		12:52	SB-DH-RW-1-25(8-10)-01072020	S	1	1							✓	
.27 .23		12:54	SB-DH-RW-1-25(12-14)-01072020	S	1	1							✓	
.28 .24		14:58	SB-DH-RW-1-26(6-8)_01072020	S	1	1							✓	
.29 .25		15:00	SB-DH-RW-1-26(8-10)_01072020	S	1	1							✓	
.30 .26		15:02	SB-DH-RW-1-26(12-14)_01072020	S	1	1							✓	
.31 .27		15:04	SB-DH-RW-1-26(15-17)_01072020	S	1	1							✓	
.32	1/7/20	—	DUP-02_01072020	S	1	1							✓	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christa Allen / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christa Allen / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kara Donkin / Arcadis	DATE 1.9.20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION	MK	DATE 1.9.20	TIME 1135

SEAL NO. — SEAL INTACT YES ☐ NO ☐ INITIALS MK
SEAL NO. — SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 1.7.20 1410
1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

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C.O.C. PAGE # 4 OF 4

111707

CHAIN OF CUSTODY RECORD

REPORT TO

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INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30506800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
10968.33	1/7/20	16:15	SB-DH-RW-1-24(3-5)_01072020	S	1	1							✓
.34	"	16:20	SB-DH-RW-1-24(5-7)_01072020	S	1	1							✓
.35	"	16:25	SB-DH-RW-1-24(9-11)_01072020	S	1	1							✓

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christin Allen / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christin Allen / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kara Dahn / Arcadis	DATE 1.9.20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION	[signature]	DATE 1.9.20	TIME 1135

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS — NOTES: TEMP. ON ARRIVAL: 1.8°C 1410
SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS — 1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Supplemental Report

Report ID: S10968.01(03)
Generated on 01/24/2020

Report to

Attention: Erin Kozak
Arcadis
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Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki, Joey Barker, Mary-Catherine.Goddard

Report Summary

Lab Sample ID(s): S10968.01-S10968.35
Project: 30006800.01904 Buick City
Collected Date(s): 01/06/2020 - 01/07/2020
Submitted Date/Time: 01/09/2020 14:10
Sampled by: Caitlin Cisco
P.O. #: 30006800.01904

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

PCBs added to samples .12-.19 per client request.

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (35 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S10968.01	SB-10-45(1-3)_01062020	Soil	01/06/20 11:16
S10968.02	SB-10-45(4-6)_01062020	Soil	01/06/20 11:18
S10968.03	SB-10-45(6-8)_01062020	Soil	01/06/20 11:20
S10968.04	SB-10-49(1-3)_01062020	Soil	01/06/20 13:00
S10968.05	SB-10-49(4-6)_01062020	Soil	01/06/20 13:02
S10968.06	SB-10-49(6-8)_01062020	Soil	01/06/20 13:04
S10968.07	DUP-01_01062020	Soil	01/06/20 00:01
S10968.08	SB-10-54(6-8)_01062020	Soil	01/06/20 13:52
S10968.09	SB-10-51(1-3)_01062020	Soil	01/06/20 14:24
S10968.10	SB-10-51(4-6)_01062020	Soil	01/06/20 14:26
S10968.11	SB-10-51(6-8)_01062020	Soil	01/06/20 14:28
S10968.12	SB-10-52(1-3)_01062020	Soil	01/06/20 14:50
S10968.13	SB-10-52(4-6)_01062020	Soil	01/06/20 14:52
S10968.14	SB-10-52(6-8)_01062020	Soil	01/06/20 14:54
S10968.15	SB-10-50(1-3)_01062020	Soil	01/06/20 15:27
S10968.16	SB-10-50(1-3)_01062020 MS	Soil	01/06/20 15:27
S10968.17	SB-10-50(1-3)_01062020 MSD	Soil	01/06/20 15:27
S10968.18	SB-10-50(4-6)_01062020	Soil	01/06/20 15:30
S10968.19	SB-10-50(6-8)_01062020	Soil	01/06/20 15:32
S10968.20	SB-10-53(6-8)_01062020	Soil	01/06/20 13:30
S10968.21	SB-DH-RW-1-27(15-17)_01072020	Soil	01/07/20 10:24
S10968.22	SB-DH-RW-1-28(15-17)_01072020	Soil	01/07/20 12:00
S10968.23	SB-DH-RW-1-25(6-8)_01072020	Soil	01/07/20 12:50
S10968.24	SB-DH-RW-1-25(6-8)_01072020 MS	Soil	01/07/20 12:50
S10968.25	SB-DH-RW-1-25(6-8)_01072020 MSD	Soil	01/07/20 12:50
S10968.26	SB-DH-RW-1-25(8-10)_01072020	Soil	01/07/20 12:52
S10968.27	SB-DH-RW-1-25(12-14)_01072020	Soil	01/07/20 12:54
S10968.28	SB-DH-RW-1-26(6-8)_01072020	Soil	01/07/20 14:58
S10968.29	SB-DH-RW-1-26(8-10)_01072020	Soil	01/07/20 15:00
S10968.30	SB-DH-RW-1-26(12-14)_01072020	Soil	01/07/20 15:02
S10968.31	SB-DH-RW-1-26(15-17)_01072020	Soil	01/07/20 15:04
S10968.32	DUP-02_01072020	Soil	01/07/20 00:01
S10968.33	SB-DH-RW-1-24(3-5)_01072020	Soil	01/07/20 16:15
S10968.34	SB-DH-RW-1-24(5-7)_01072020	Soil	01/07/20 16:20
S10968.35	SB-DH-RW-1-24(9-11)_01072020	Soil	01/07/20 16:25

Lab Sample ID: S10968.01
Sample Tag: SB-10-45(1-3)_01062020
Collected Date/Time: 01/06/2020 11:16
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	400	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.02
Sample Tag: SB-10-45(4-6)_01062020
Collected Date/Time: 01/06/2020 11:18
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	75	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:28, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	7,000		ug/kg	1000	12674-11-2	Y
PCB-1242	Not detected	7,000		ug/kg	1000	53469-21-9	Y
PCB-1221	Not detected	7,000		ug/kg	1000	11104-28-2	Y
PCB-1232	Not detected	7,000		ug/kg	1000	11141-16-5	Y
PCB-1248	Not detected	7,000		ug/kg	1000	12672-29-6	Y
PCB-1254	21,000	7,000		ug/kg	1000	11097-69-1	Y
PCB-1260	Not detected	7,000		ug/kg	1000	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.03
Sample Tag: SB-10-45(6-8)_01062020
Collected Date/Time: 01/06/2020 11:20
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/13/20 17:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	2,900	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.04
Sample Tag: SB-10-49(1-3)_01062020
Collected Date/Time: 01/06/2020 13:00
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	95	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 19:16, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.05
Sample Tag: SB-10-49(4-6)_01062020
Collected Date/Time: 01/06/2020 13:02
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	2,600	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.06
Sample Tag: SB-10-49(6-8)_01062020
Collected Date/Time: 01/06/2020 13:04
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/13/20 17:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	2,500	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.07
Sample Tag: DUP-01_01062020
Collected Date/Time: 01/06/2020 00:01
Matrix: Soil
COC Reference: 119273

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/09/20 15:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/10/20 18:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	5,200	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.08
Sample Tag: SB-10-54(6-8)_01062020
Collected Date/Time: 01/06/2020 13:52
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/21/20 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	72	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/21/20 16:47, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.09
Sample Tag: SB-10-51(1-3)_01062020
Collected Date/Time: 01/06/2020 14:24
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/21/20 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/21/20 16:30, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.10
Sample Tag: SB-10-51(4-6)_01062020
Collected Date/Time: 01/06/2020 14:26
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/21/20 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/21/20 16:59, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	700	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S10968.11
Sample Tag: SB-10-51(6-8)_01062020
Collected Date/Time: 01/06/2020 14:28
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/21/20 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	67	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/21/20 17:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	700		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	700		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	700		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	700		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	700		ug/kg	100	12672-29-6	Y
PCB-1254	4,300	700		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	700		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.12
Sample Tag: SB-10-52(1-3)_01062020
Collected Date/Time: 01/06/2020 14:50
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/23/20 13:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/23/20 20:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	400	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.13
Sample Tag: SB-10-52(4-6)_01062020
Collected Date/Time: 01/06/2020 14:52
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/23/20 13:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/23/20 18:53, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.14
Sample Tag: SB-10-52(6-8)_01062020
Collected Date/Time: 01/06/2020 14:54
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/23/20 13:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/23/20 19:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	1,300	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S10968.15
Sample Tag: SB-10-50(1-3)_01062020
Collected Date/Time: 01/06/2020 15:27
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/23/20 13:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/23/20 17:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.16
Sample Tag: SB-10-50(1-3)_01062020 MS
Collected Date/Time: 01/06/2020 15:27
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/23/20 13:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/23/20 17:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	20	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	20	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.17
Sample Tag: SB-10-50(1-3)_01062020 MSD
Collected Date/Time: 01/06/2020 15:27
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/23/20 13:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/23/20 18:03, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	20	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.18
Sample Tag: SB-10-50(4-6)_01062020
Collected Date/Time: 01/06/2020 15:30
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/10/20 13:00	JL	

Inorganics

Method: SM2540B, Run Date: 01/23/20 13:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/23/20 20:34, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.19
Sample Tag: SB-10-50(6-8)_01062020
Collected Date/Time: 01/06/2020 15:32
Matrix: Soil
COC Reference: 119274

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/23/20 13:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/23/20 20:10, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000		ug/kg	300	12674-11-2	Y
PCB-1242	Not detected	2,000		ug/kg	300	53469-21-9	Y
PCB-1221	Not detected	2,000		ug/kg	300	11104-28-2	Y
PCB-1232	Not detected	2,000		ug/kg	300	11141-16-5	Y
PCB-1248	Not detected	2,000		ug/kg	300	12672-29-6	Y
PCB-1254	9,000	2,000		ug/kg	300	11097-69-1	Y
PCB-1260	Not detected	2,000		ug/kg	300	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.20
Sample Tag: SB-10-53(6-8)_01062020
Collected Date/Time: 01/06/2020 13:30
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	75	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 17:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	2,500	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S10968.21
Sample Tag: SB-DH-RW-1-27(15-17)_01072020
Collected Date/Time: 01/07/2020 10:24
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 17:54, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	6,000		ug/kg	1000	12674-11-2	Y
PCB-1242	61,000	6,000		ug/kg	1000	53469-21-9	Y
PCB-1221	Not detected	6,000		ug/kg	1000	11104-28-2	Y
PCB-1232	Not detected	6,000		ug/kg	1000	11141-16-5	Y
PCB-1248	Not detected	6,000		ug/kg	1000	12672-29-6	Y
PCB-1254	Not detected	6,000		ug/kg	1000	11097-69-1	Y
PCB-1260	Not detected	6,000		ug/kg	1000	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.22
Sample Tag: SB-DH-RW-1-28(15-17)_01072020
Collected Date/Time: 01/07/2020 12:00
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 18:06, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.23
Sample Tag: SB-DH-RW-1-25(6-8)_01072020
Collected Date/Time: 01/07/2020 12:50
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 22:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.24

Sample Tag: SB-DH-RW-1-25(6-8)_01072020 MS

Collected Date/Time: 01/07/2020 12:50

Matrix: Soil

COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 22:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.25

Sample Tag: SB-DH-RW-1-25(6-8)_01072020 MSD

Collected Date/Time: 01/07/2020 12:50

Matrix: Soil

COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 23:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S10968.26

Sample Tag: SB-DH-RW-1-25(8-10)_01072020

Collected Date/Time: 01/07/2020 12:52

Matrix: Soil

COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 19:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.27
Sample Tag: SB-DH-RW-1-25(12-14)_01072020
Collected Date/Time: 01/07/2020 12:54
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 20:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	2,300	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	Not detected	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Lab Sample ID: S10968.28
Sample Tag: SB-DH-RW-1-26(6-8)_01072020
Collected Date/Time: 01/07/2020 14:58
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 19:43, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.29
Sample Tag: SB-DH-RW-1-26(8-10)_01072020
Collected Date/Time: 01/07/2020 15:00
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 16:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10968.30
Sample Tag: SB-DH-RW-1-26(12-14)_01072020
Collected Date/Time: 01/07/2020 15:02
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 18:55, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y
PCB-1242	7,400	1,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.31
Sample Tag: SB-DH-RW-1-26(15-17)_01072020
Collected Date/Time: 01/07/2020 15:04
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 21:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	3,000		ug/kg	500	12674-11-2	Y
PCB-1242	16,000	3,000		ug/kg	500	53469-21-9	Y
PCB-1221	Not detected	3,000		ug/kg	500	11104-28-2	Y
PCB-1232	Not detected	3,000		ug/kg	500	11141-16-5	Y
PCB-1248	Not detected	3,000		ug/kg	500	12672-29-6	Y
PCB-1254	Not detected	3,000		ug/kg	500	11097-69-1	Y
PCB-1260	Not detected	3,000		ug/kg	500	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.32
Sample Tag: DUP-02_01072020
Collected Date/Time: 01/07/2020 00:01
Matrix: Soil
COC Reference: 113399

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 21:34, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y
PCB-1242	8,100	1,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.33
Sample Tag: SB-DH-RW-1-24(3-5)_01072020
Collected Date/Time: 01/07/2020 16:15
Matrix: Soil
COC Reference: 111707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/13/20 17:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/14/20 21:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	5,000	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	Not detected	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.34
Sample Tag: SB-DH-RW-1-24(5-7)_01072020
Collected Date/Time: 01/07/2020 16:20
Matrix: Soil
COC Reference: 111707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 16:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	3,900	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	Not detected	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10968.35

Sample Tag: SB-DH-RW-1-24(9-11)_01072020

Collected Date/Time: 01/07/2020 16:25

Matrix: Soil

COC Reference: 111707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 10:50, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 16:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	1,000	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S10968
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30006800.01904 Buick City
Submitted: 01/09/2020 14:10 Login User: SRS

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.1
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[ ] Yes	[ ] No	[X] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 4

119273

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☑ OTHER 5-DAY TAT

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
109968.01	1/6/20	11:16	SB-10-45(1-3)_01062020	S	1	1							✓
.02		11:18	SB-10-45(4-6)_01062020	S	1	1							✓
.03		11:20	SB-10-45(6-8)_01062020	S	1	1							✓
.04		13:00	SB-10-49(1-3)_01062020	S	1	1							✓
.05		13:02	SB-10-49(4-6)_01062020	S	1	1							✓
.06		13:04	SB-10-49(6-8)_01062020	S	1	1							✓
.07		—	DUP-01_01062020	S	1	1							✓

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christine Allen / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christine Allen / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi cold storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kenneth Dorsey / Arcadis	DATE 1.8.20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION	MX	DATE 1.8.20	TIME 1135
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS MEA	NOTES: TEMP ON ARRIVAL 1.7.20 1410
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
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C.O.C. PAGE # 2 OF 4

119274

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
109608.08	1/6/20	13:52	SB-10-54(6-8)-01062020	S	1	1							✓	EXTRACT AND
.09		14:24	SB-10-51(1-3)-01062020	S	1	1							✓	HOLD FOR PCBs
.10		14:26	SB-10-51(4-6)-01062020	S	1	1							✓	
.11		14:28	SB-10-51(6-8)-01062020	S	1	1							✓	
.12		14:50	SB-10-52(1-3)-01062020	S	1	1							✓	
.13		14:52	SB-10-52(4-6)-01062020	S	1	1							✓	
.14		14:54	SB-10-52(6-8)-01062020	S	1	1							✓	
.15/.16/.17		15:27	SB-10-50(1-3)-01062020	S	3	3							✓	
.18		15:30	SB-10-50(4-6)-01062020	S	1	1							✓	
.19		15:32	SB-10-50(6-8)-01062020	S	1	1							✓	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christa Ulm / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christa Ulm / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	NOVI cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kari Dhu / Arcadis	DATE 1-9-20	TIME 135
RECEIVED BY: SIGNATURE/ORGANIZATION	MS	DATE 1.9.20	TIME 135

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS MS — NOTES: TEMP. ON ARRIVAL 1.9.20 1410

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS — 1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

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C.O.C. PAGE # 3 OF 4

113399

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
10968.20	1/6/20	13:30	SB-10-53(6-8)-01062020	S	1	1							✓	
.21 .19	1/7/20	10:24	SB-DH-RW-1-27(15-17)-01072020	S	1	1							✓	
.22 .20		12:00	SB-DH-RW-1-28(15-17)-01072020	S	1	1							✓	
23/24/25.21		12:50	SB-DH-RW-1-25(6-8)-01072020	S	3	3							✓	MS/MSD
.26 .22		12:52	SB-DH-RW-1-25(8-10)-01072020	S	1	1							✓	
.27 .23		12:54	SB-DH-RW-1-25(12-14)-01072020	S	1	1							✓	
.28 .24		14:58	SB-DH-RW-1-26(6-8)_01072020	S	1	1							✓	
.29 .25		15:00	SB-DH-RW-1-26(8-10)_01072020	S	1	1							✓	
.30 .26		15:02	SB-DH-RW-1-26(12-14)_01072020	S	1	1							✓	
.31 .27		15:04	SB-DH-RW-1-26(15-17)_01072020	S	1	1							✓	
.32	1/7/20	—	DUP-02_01072020	S	1	1							✓	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christa Allen / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christa Allen / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kara Donkin / Arcadis	DATE 1.9.20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION	MK	DATE 1.9.20	TIME 1135

SEAL NO. — SEAL INTACT YES ☐ NO ☐ INITIALS MK
SEAL NO. — SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 1.7.20 1410
1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.
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Phone (517) 332-0167 Fax (517) 332-4034
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C.O.C. PAGE # 4 OF 4

111707

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MEGAN HUMPHREY, JOEY BARKER, ERIN KOZAK, Mary Catherine Goddard
COMPANY: ARCADIS OF MICHIGAN LLC
ADDRESS: 28550 CABOT DRIVE, STE 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30506800.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CAITLIN CISCO / Caitlin Cisco

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
10968.33	1/7/20	16:15	SB-DH-RW-1-24(3-5)_01072020	S	1	1							✓
.34	"	16:20	SB-DH-RW-1-24(5-7)_01072020	S	1	1							✓
.35	"	16:25	SB-DH-RW-1-24(9-11)_01072020	S	1	1							✓

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Caitlin Cisco / ARCADIS ☑ Sampler	DATE 1/7/2020	TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION	Christin Allen / Arcadis	DATE 1/7/2020	TIME 1630
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christin Allen / Arcadis	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kara Dahn / Arcadis	DATE 1.9.20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION	[signature]	DATE 1.9.20	TIME 1135

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS — NOTES: TEMP. ON ARRIVAL: 1.8°C 1410
SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS — 1/9/20 1410

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Preliminary Report

Report ID: S10981.01(01)
Generated on 01/16/2020

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

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Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki, Joey Barker, Mary-Catherine.Goddard

Report Summary

Lab Sample ID(s): S10981.01-S10981.22
Project: 30006800.01904 Buick City - Restrictive Covenant Delineation
Collected Date(s): 01/06/2020
Submitted Date/Time: 01/09/2020 14:10
Sampled by: Christina Weaver
P.O. #: 30006800.01904

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Sample Summary (Page 5)

Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

5-day rush samples completed

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8270D	SW 846 Method 8270D Revision 4 February 2007

Sample Summary (22 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S10981.01	SB-10-44(4-6)_01062020	Soil	01/06/20 14:12
S10981.02	SB-10-46(1-3)_01062020	Soil	01/06/20 14:44
S10981.03	SB-10-46(4-6)_01062020	Soil	01/06/20 15:03
S10981.04	SB-10-48(1-3)_01062020	Soil	01/06/20 15:36
S10981.05	SB-10-48(4-6)_01062020	Soil	01/06/20 15:38
S10981.06	SB-10-48(6-8)_01062020	Soil	01/06/20 15:40
S10981.07	SB-84-17(1-2)_01062020	Soil	01/06/20 11:50
S10981.08	SB-84-17(2-4)_01062020	Soil	01/06/20 12:26
S10981.09	SB-84-18(0-2)_01062020	Soil	01/06/20 15:05
S10981.10	SB-84-18(2-4)_01062020	Soil	01/06/20 15:08
S10981.11	SB-03-15(1-3)_01062020	Soil	01/06/20 10:06
S10981.12	SB-03-16(1-3)_01062020	Soil	01/06/20 10:15
S10981.13	SB-81-35(0-2)_01062020	Soil	01/06/20 10:30
S10981.14	SB-81-35(3-5)_01062020	Soil	01/06/20 10:35
S10981.15	SB-03-19(0-2)_01062020	Soil	01/06/20 11:14
S10981.16	SB-03-18(1-2)_01062020	Soil	01/06/20 11:33
S10981.17	SB-03-18(2-3)_01062020	Soil	01/06/20 11:38
S10981.18	SB-03-17(1-2)_01062020	Soil	01/06/20 12:03
S10981.19	SB-03-17(2-3)_01062020	Soil	01/06/20 12:08
S10981.20	SB-10-47(1-3)_01062020	Soil	01/06/20 12:47
S10981.21	SB-10-47(4-6)_01062020	Soil	01/06/20 12:58
S10981.22	SB-10-44(1-3)_01062020	Soil	01/06/20 13:57

Lab Sample ID: S10981.01
Sample Tag: SB-10-44(4-6)_01062020
Collected Date/Time: 01/06/2020 14:12
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 17:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	400	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.02
Sample Tag: SB-10-46(1-3)_01062020
Collected Date/Time: 01/06/2020 14:44
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.03
Sample Tag: SB-10-46(4-6)_01062020
Collected Date/Time: 01/06/2020 15:03
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.04
Sample Tag: SB-10-48(1-3)_01062020
Collected Date/Time: 01/06/2020 15:36
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Lab Sample ID: S10981.05
Sample Tag: SB-10-48(4-6)_01062020
Collected Date/Time: 01/06/2020 15:38
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Lab Sample ID: S10981.06
Sample Tag: SB-10-48(6-8)_01062020
Collected Date/Time: 01/06/2020 15:40
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Lab Sample ID: S10981.07
Sample Tag: SB-84-17(1-2)_01062020
Collected Date/Time: 01/06/2020 11:50
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: / /, Analyst:

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Incomplete			ug/kg		50-32-8	

Lab Sample ID: S10981.08
Sample Tag: SB-84-17(2-4)_01062020
Collected Date/Time: 01/06/2020 12:26
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: / /, Analyst:

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Incomplete			ug/kg		50-32-8	

Lab Sample ID: S10981.09
Sample Tag: SB-84-18(0-2)_01062020
Collected Date/Time: 01/06/2020 15:05
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	96	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: / /, Analyst:

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Incomplete			ug/kg		50-32-8	

Lab Sample ID: S10981.10
Sample Tag: SB-84-18(2-4)_01062020
Collected Date/Time: 01/06/2020 15:08
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	94	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: / /, Analyst:

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Incomplete			ug/kg		50-32-8	

Lab Sample ID: S10981.11
Sample Tag: SB-03-15(1-3)_01062020
Collected Date/Time: 01/06/2020 10:06
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	97	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: / /, Analyst:

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Incomplete			ug/kg		50-32-8	

Lab Sample ID: S10981.12
Sample Tag: SB-03-16(1-3)_01062020
Collected Date/Time: 01/06/2020 10:15
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: / /, Analyst:

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Incomplete			ug/kg		50-32-8	

Lab Sample ID: S10981.13
Sample Tag: SB-81-35(0-2)_01062020
Collected Date/Time: 01/06/2020 10:30
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.14
Sample Tag: SB-81-35(3-5)_01062020
Collected Date/Time: 01/06/2020 10:35
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:35, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.15
Sample Tag: SB-03-19(0-2)_01062020
Collected Date/Time: 01/06/2020 11:14
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	01/13/20 12:10	JRH	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Metals

Method: SW6020A, Run Date: 01/14/20 12:53, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	489	0.50		mg/kg	230	7439-96-5	

Lab Sample ID: S10981.16
Sample Tag: SB-03-18(1-2)_01062020
Collected Date/Time: 01/06/2020 11:33
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	01/13/20 12:10	JRH	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Metals

Method: SW6020A, Run Date: 01/14/20 12:54, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	185	0.50		mg/kg	227	7439-96-5	

Lab Sample ID: S10981.17
Sample Tag: SB-03-18(2-3)_01062020
Collected Date/Time: 01/06/2020 11:38
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Other / Misc.

Method: , Run Date: 01/09/20 16:00, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S10981.18
Sample Tag: SB-03-17(1-2)_01062020
Collected Date/Time: 01/06/2020 12:03
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	01/13/20 12:10	JRH	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Metals

Method: SW6020A, Run Date: 01/14/20 12:55, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	962	0.50		mg/kg	230	7439-96-5	

Lab Sample ID: S10981.19
Sample Tag: SB-03-17(2-3)_01062020
Collected Date/Time: 01/06/2020 12:08
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Other / Misc.

Method: , Run Date: 01/09/20 16:00, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S10981.20
Sample Tag: SB-10-47(1-3)_01062020
Collected Date/Time: 01/06/2020 12:47
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 15:55, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:47, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.21
Sample Tag: SB-10-47(4-6)_01062020
Collected Date/Time: 01/06/2020 12:58
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 15:55, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 17:39, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000		ug/kg	300	12674-11-2	Y
PCB-1242	Not detected	2,000		ug/kg	300	53469-21-9	Y
PCB-1221	Not detected	2,000		ug/kg	300	11104-28-2	Y
PCB-1232	Not detected	2,000		ug/kg	300	11141-16-5	Y
PCB-1248	Not detected	2,000		ug/kg	300	12672-29-6	Y
PCB-1254	5,000	2,000		ug/kg	300	11097-69-1	Y
PCB-1260	Not detected	2,000		ug/kg	300	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10981.22
Sample Tag: SB-10-44(1-3)_01062020
Collected Date/Time: 01/06/2020 13:57
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 15:55, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:59, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID:S10981
Client:ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30006800.01904 Buick City - Restrictive Covenant Delineation
Submitted:01/09/2020 14:10 Login User: SRS

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.1
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[ ] Yes	[ ] No	[X] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

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www.meritlabs.com

C.O.C. PAGE # 1 OF 2

112206

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphery, Joey Barker, Erin Kozak, Mary Catherine Goddard
COMPANY: Accadis
ADDRESS: 28550 Cabot Dr # 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: —
P.O. NO.: 30006800.01904
E-MAIL ADDRESS: micki.maki@accadis.com
QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904 Quick City - Restrictive Covenant Delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Christina Weaver / Christina Weaver
TURNAROUND TIME REQUIRED: ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☒ OTHER — See Special Instructions
DELIVERABLES REQUIRED: ☒ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Benzo(a)Pyrene	PCBs	Manganese	Do Not Analyze	Special Instructions
10981.01	1/6/2020	1412	SB-10-44(4-6)_01062020	S	1	1								X			5 day TAT
.02	1/6/2020	1444	SB-10-46(1-3)_01062020	S	1	1								X			5 day TAT
.03	1/6/2020	1503	SB-10-46(4-6)_01062020	S	1	1								X			5 day TAT
.04	1/6/2020	1536	SB-10-48(1-3)_01062020	S	1	1								X			Extract and Hold PCBs
.05	1/6/2020	1538	SB-10-48(4-6)_01062020	S	1	1								X			Extract and Hold PCBs
.06	1/6/2020	1540	SB-10-48(6-8)_01062020	S	1	1								X			Extract and Hold PCBs
.07	1/7/2020	1150	SB-84-17(1-2)_01062020	S	1	1							X				
.08	1/7/2020	1226	SB-84-17(2-4)_01062020	S	1	1							X				
.09	1/7/2020	1505	SB-84-18(0-2)_01062020	S	1	1							X				
.10	1/7/2020	1508	SB-84-18(2-4)_01062020	S	1	1							X				

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christina Weaver / Christina Weaver / Accadis ☒ Sampler	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi cold storage / Accadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Accadis	DATE 1-8-20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 1.8.20	TIME 1135

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Mow	DATE 1-9-20	TIME 1410
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 1/9/20	TIME 1410

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS
SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS

NOTES: TEMP. ON ARRIVAL 3.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.16.12

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C.O.C. PAGE # 2 OF 2

119269

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Joey Bucker, Erin Kozak, Mary Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: —
P.O. NO.: 30006800.01904
E-MAIL ADDRESS: Micki.Maki@arcadis.com
QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904 Quick City - Restrictive covenant delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☒ OTHER See Spc. Instructions

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Benzo(a)Pyrene	PCBs	Manganese	DO NOT Analyze	Special Instructions
10981.11	1/6/2020	1006	SB-03-15(1-3)_01062020	S	1	1							X				
.12	1/6/2020	1015	SB-03-16(1-3)_01062020	S	1	1							X				
.13	1/6/2020	1030	SB-80-35(0-2)_01062020	S	1	1								X			
.14	1/6/2020	1035	SB-80-35(3-5)_01062020	S	1	1								X			
.15	1/6/2020	1114	SB-03-19(0-2)_01062020	S	1	1									X		
.16	1/6/2020	1133	SB-03-18(1-2)_01062020	S	1	1									X (W)		
.17	1/6/2020	1138	SB-03-18(2-3)_01062020	S	1	1									X	X	DO NOT ANALYZE, discard
.18	1/6/2020	1203	SB-03-17(1-2)_01062020	S	1	1									X		
.19	1/6/2020	1208	SB-03-17(2-3)_01062020	S	1	1									X (W)	X	DO NOT ANALYZE, discard
.20	1/6/2020	1247	SB-10-47(1-3)_01062020	S	1	1								X			
.21	1/6/2020	1258	SB-10-47(4-6)_01062020	S	1	1								X			
.22	1/6/2020	1357	SB-10-44(1-3)_01062020	S	1	1								X			5 day TAT

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christina Weaver / Arcadis (Sampler)	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	/ Arcadis	DATE 1-9-20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 1-9-20	TIME 1135

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 1.9.20	TIME 1410
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 1/9/20	TIME 1410

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Final Report

Report ID: S10981.01(02)
Generated on 01/16/2020

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Report produced by

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Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki, Joey Barker, Mary-Catherine.Goddard

Report Summary

Lab Sample ID(s): S10981.01-S10981.22
Project: 30006800.01904 Buick City - Restrictive Covenant Delineation
Collected Date(s): 01/06/2020
Submitted Date/Time: 01/09/2020 14:10
Sampled by: Christina Weaver
P.O. #: 30006800.01904

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

All analyses completed

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8270D	SW 846 Method 8270D Revision 4 February 2007

Sample Summary (22 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S10981.01	SB-10-44(4-6)_01062020	Soil	01/06/20 14:12
S10981.02	SB-10-46(1-3)_01062020	Soil	01/06/20 14:44
S10981.03	SB-10-46(4-6)_01062020	Soil	01/06/20 15:03
S10981.04	SB-10-48(1-3)_01062020	Soil	01/06/20 15:36
S10981.05	SB-10-48(4-6)_01062020	Soil	01/06/20 15:38
S10981.06	SB-10-48(6-8)_01062020	Soil	01/06/20 15:40
S10981.07	SB-84-17(1-2)_01062020	Soil	01/06/20 11:50
S10981.08	SB-84-17(2-4)_01062020	Soil	01/06/20 12:26
S10981.09	SB-84-18(0-2)_01062020	Soil	01/06/20 15:05
S10981.10	SB-84-18(2-4)_01062020	Soil	01/06/20 15:08
S10981.11	SB-03-15(1-3)_01062020	Soil	01/06/20 10:06
S10981.12	SB-03-16(1-3)_01062020	Soil	01/06/20 10:15
S10981.13	SB-81-35(0-2)_01062020	Soil	01/06/20 10:30
S10981.14	SB-81-35(3-5)_01062020	Soil	01/06/20 10:35
S10981.15	SB-03-19(0-2)_01062020	Soil	01/06/20 11:14
S10981.16	SB-03-18(1-2)_01062020	Soil	01/06/20 11:33
S10981.17	SB-03-18(2-3)_01062020	Soil	01/06/20 11:38
S10981.18	SB-03-17(1-2)_01062020	Soil	01/06/20 12:03
S10981.19	SB-03-17(2-3)_01062020	Soil	01/06/20 12:08
S10981.20	SB-10-47(1-3)_01062020	Soil	01/06/20 12:47
S10981.21	SB-10-47(4-6)_01062020	Soil	01/06/20 12:58
S10981.22	SB-10-44(1-3)_01062020	Soil	01/06/20 13:57

Lab Sample ID: S10981.01
Sample Tag: SB-10-44(4-6)_01062020
Collected Date/Time: 01/06/2020 14:12
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 17:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	400	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.02
Sample Tag: SB-10-46(1-3)_01062020
Collected Date/Time: 01/06/2020 14:44
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.03
Sample Tag: SB-10-46(4-6)_01062020
Collected Date/Time: 01/06/2020 15:03
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.04
Sample Tag: SB-10-48(1-3)_01062020
Collected Date/Time: 01/06/2020 15:36
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Lab Sample ID: S10981.05
Sample Tag: SB-10-48(4-6)_01062020
Collected Date/Time: 01/06/2020 15:38
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Lab Sample ID: S10981.06
Sample Tag: SB-10-48(6-8)_01062020
Collected Date/Time: 01/06/2020 15:40
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Lab Sample ID: S10981.07
Sample Tag: SB-84-17(1-2)_01062020
Collected Date/Time: 01/06/2020 11:50
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 01/16/20 00:51, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	2,600	300		ug/kg	10	50-32-8	

Lab Sample ID: S10981.08
Sample Tag: SB-84-17(2-4)_01062020
Collected Date/Time: 01/06/2020 12:26
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 01/15/20 21:08, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	

Lab Sample ID: S10981.09
Sample Tag: SB-84-18(0-2)_01062020
Collected Date/Time: 01/06/2020 15:05
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	96	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 01/15/20 21:25, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	

Lab Sample ID: S10981.10
Sample Tag: SB-84-18(2-4)_01062020
Collected Date/Time: 01/06/2020 15:08
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	94	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 01/15/20 21:42, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	

Lab Sample ID: S10981.11
Sample Tag: SB-03-15(1-3)_01062020
Collected Date/Time: 01/06/2020 10:06
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	97	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 01/15/20 21:59, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	

Lab Sample ID: S10981.12
Sample Tag: SB-03-16(1-3)_01062020
Collected Date/Time: 01/06/2020 10:15
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 01/15/20 22:17, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	

Lab Sample ID: S10981.13
Sample Tag: SB-81-35(0-2)_01062020
Collected Date/Time: 01/06/2020 10:30
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.14
Sample Tag: SB-81-35(3-5)_01062020
Collected Date/Time: 01/06/2020 10:35
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:35, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.15
Sample Tag: SB-03-19(0-2)_01062020
Collected Date/Time: 01/06/2020 11:14
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	01/13/20 12:10	JRH	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Metals

Method: SW6020A, Run Date: 01/14/20 12:53, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	489	0.50		mg/kg	230	7439-96-5	

Lab Sample ID: S10981.16
Sample Tag: SB-03-18(1-2)_01062020
Collected Date/Time: 01/06/2020 11:33
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	01/13/20 12:10	JRH	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Metals

Method: SW6020A, Run Date: 01/14/20 12:54, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	185	0.50		mg/kg	227	7439-96-5	

Lab Sample ID: S10981.17
Sample Tag: SB-03-18(2-3)_01062020
Collected Date/Time: 01/06/2020 11:38
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Other / Misc.

Method: , Run Date: 01/09/20 16:00, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S10981.18
Sample Tag: SB-03-17(1-2)_01062020
Collected Date/Time: 01/06/2020 12:03
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	01/13/20 12:10	JRH	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Metals

Method: SW6020A, Run Date: 01/14/20 12:55, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	962	0.50		mg/kg	230	7439-96-5	

Lab Sample ID: S10981.19
Sample Tag: SB-03-17(2-3)_01062020
Collected Date/Time: 01/06/2020 12:08
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Other / Misc.

Method: , Run Date: 01/09/20 16:00, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S10981.20
Sample Tag: SB-10-47(1-3)_01062020
Collected Date/Time: 01/06/2020 12:47
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 15:55, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:47, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.21
Sample Tag: SB-10-47(4-6)_01062020
Collected Date/Time: 01/06/2020 12:58
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 15:55, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 17:39, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000		ug/kg	300	12674-11-2	Y
PCB-1242	Not detected	2,000		ug/kg	300	53469-21-9	Y
PCB-1221	Not detected	2,000		ug/kg	300	11104-28-2	Y
PCB-1232	Not detected	2,000		ug/kg	300	11141-16-5	Y
PCB-1248	Not detected	2,000		ug/kg	300	12672-29-6	Y
PCB-1254	5,000	2,000		ug/kg	300	11097-69-1	Y
PCB-1260	Not detected	2,000		ug/kg	300	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10981.22
Sample Tag: SB-10-44(1-3)_01062020
Collected Date/Time: 01/06/2020 13:57
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 15:55, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:59, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID:S10981
Client:ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30006800.01904 Buick City - Restrictive Covenant Delineation
Submitted:01/09/2020 14:10 Login User: SRS

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.1
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[ ] Yes	[ ] No	[X] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

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C.O.C. PAGE # 1 OF 2

112206

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphery, Joey Barker, Erin Kozak, Mary Catherine Goddard
COMPANY: Accadis
ADDRESS: 28550 Cabot Dr # 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: —
P.O. NO.: 30006800.01904
E-MAIL ADDRESS: micki.maki@accadis.com
QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904 Quick City - Restrictive Covenant Delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Christina Weaver / Christina Weaver
TURNAROUND TIME REQUIRED: ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☒ OTHER — See Special Instructions
DELIVERABLES REQUIRED: ☒ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Benzo(a)Pyrene	PCBs	Manganese	Do Not Analyze	Special Instructions
10981.01	1/6/2020	1412	SB-10-44(4-6)_01062020	S	1	1								X			5 day TAT
.02	1/6/2020	1444	SB-10-46(1-3)_01062020	S	1	1								X			5 day TAT
.03	1/6/2020	1503	SB-10-46(4-6)_01062020	S	1	1								X			5 day TAT
.04	1/6/2020	1536	SB-10-48(1-3)_01062020	S	1	1								X			Extract and Hold PCBs
.05	1/6/2020	1538	SB-10-48(4-6)_01062020	S	1	1								X			Extract and Hold PCBs
.06	1/6/2020	1540	SB-10-48(6-8)_01062020	S	1	1								X			Extract and Hold PCBs
.07	1/7/2020	1150	SB-84-17(1-2)_01062020	S	1	1							X				
.08	1/7/2020	1226	SB-84-17(2-4)_01062020	S	1	1							X				
.09	1/7/2020	1505	SB-84-18(0-2)_01062020	S	1	1							X				
.10	1/7/2020	1508	SB-84-18(2-4)_01062020	S	1	1							X				

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christina Weaver / Christina Weaver / Accadis ☒ Sampler	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi cold storage / Accadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Accadis	DATE 1-8-20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 1.8.20	TIME 1135

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Mow	DATE 1-9-20	TIME 1410
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 1/9/20	TIME 1410

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS
SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS

NOTES: TEMP. ON ARRIVAL 3.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.16.12

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C.O.C. PAGE # 2 OF 2

119269

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Joey Bucker, Erin Kozak, Mary Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: —
P.O. NO.: 30006800.01904
E-MAIL ADDRESS: Micki.Maki@arcadis.com
QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904 Quick City - Restrictive covenant delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☒ OTHER See Spc. Instructions

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Benzo(a)Pyrene	PCBs	Manganese	DO NOT Analyze	Special Instructions
10981.11	1/6/2020	1006	SB-03-15(1-3)_01062020	S	1	1							X				
.12	1/6/2020	1015	SB-03-16(1-3)_01062020	S	1	1							X				
.13	1/6/2020	1030	SB-80-35(0-2)_01062020	S	1	1								X			
.14	1/6/2020	1035	SB-80-35(3-5)_01062020	S	1	1								X			
.15	1/6/2020	1114	SB-03-19(0-2)_01062020	S	1	1									X		
.16	1/6/2020	1133	SB-03-18(1-2)_01062020	S	1	1									X (W)		
.17	1/6/2020	1138	SB-03-18(2-3)_01062020	S	1	1									X	X	DO NOT ANALYZE, discard
.18	1/6/2020	1203	SB-03-17(1-2)_01062020	S	1	1									X		
.19	1/6/2020	1208	SB-03-17(2-3)_01062020	S	1	1									X (W)	X	DO NOT ANALYZE, discard
.20	1/6/2020	1247	SB-10-47(1-3)_01062020	S	1	1								X			
.21	1/6/2020	1258	SB-10-47(4-6)_01062020	S	1	1								X			
.22	1/6/2020	1357	SB-10-44(1-3)_01062020	S	1	1								X			5 day TAT

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christina Weaver / Arcadis (Sampler)	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	/ Arcadis	DATE 1-9-20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 1-9-20	TIME 1135

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 1.9.20	TIME 1410
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 1/9/20	TIME 1410

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Supplemental Report

Report ID: S10981.01(03)
Generated on 01/22/2020

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Report produced by

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John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki, Joey Barker, Mary-Catherine.Goddard

Report Summary

Lab Sample ID(s): S10981.01-S10981.22
Project: 30006800.01904 Buick City - Restrictive Covenant Delineation
Collected Date(s): 01/06/2020
Submitted Date/Time: 01/09/2020 14:10
Sampled by: Christina Weaver
P.O. #: 30006800.01904

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

Analyses added per client request.

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8270D	SW 846 Method 8270D Revision 4 February 2007

Sample Summary (22 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S10981.01	SB-10-44(4-6)_01062020	Soil	01/06/20 14:12
S10981.02	SB-10-46(1-3)_01062020	Soil	01/06/20 14:44
S10981.03	SB-10-46(4-6)_01062020	Soil	01/06/20 15:03
S10981.04	SB-10-48(1-3)_01062020	Soil	01/06/20 15:36
S10981.05	SB-10-48(4-6)_01062020	Soil	01/06/20 15:38
S10981.06	SB-10-48(6-8)_01062020	Soil	01/06/20 15:40
S10981.07	SB-84-17(1-2)_01062020	Soil	01/06/20 11:50
S10981.08	SB-84-17(2-4)_01062020	Soil	01/06/20 12:26
S10981.09	SB-84-18(0-2)_01062020	Soil	01/06/20 15:05
S10981.10	SB-84-18(2-4)_01062020	Soil	01/06/20 15:08
S10981.11	SB-03-15(1-3)_01062020	Soil	01/06/20 10:06
S10981.12	SB-03-16(1-3)_01062020	Soil	01/06/20 10:15
S10981.13	SB-81-35(0-2)_01062020	Soil	01/06/20 10:30
S10981.14	SB-81-35(3-5)_01062020	Soil	01/06/20 10:35
S10981.15	SB-03-19(0-2)_01062020	Soil	01/06/20 11:14
S10981.16	SB-03-18(1-2)_01062020	Soil	01/06/20 11:33
S10981.17	SB-03-18(2-3)_01062020	Soil	01/06/20 11:38
S10981.18	SB-03-17(1-2)_01062020	Soil	01/06/20 12:03
S10981.19	SB-03-17(2-3)_01062020	Soil	01/06/20 12:08
S10981.20	SB-10-47(1-3)_01062020	Soil	01/06/20 12:47
S10981.21	SB-10-47(4-6)_01062020	Soil	01/06/20 12:58
S10981.22	SB-10-44(1-3)_01062020	Soil	01/06/20 13:57

Lab Sample ID: S10981.01
Sample Tag: SB-10-44(4-6)_01062020
Collected Date/Time: 01/06/2020 14:12
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 17:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	400	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.02
Sample Tag: SB-10-46(1-3)_01062020
Collected Date/Time: 01/06/2020 14:44
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.03
Sample Tag: SB-10-46(4-6)_01062020
Collected Date/Time: 01/06/2020 15:03
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.04
Sample Tag: SB-10-48(1-3)_01062020
Collected Date/Time: 01/06/2020 15:36
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/21/20 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	92	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/21/20 16:05, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	400	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.05
Sample Tag: SB-10-48(4-6)_01062020
Collected Date/Time: 01/06/2020 15:38
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/21/20 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	95	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/21/20 16:18, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.06
Sample Tag: SB-10-48(6-8)_01062020
Collected Date/Time: 01/06/2020 15:40
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/21/20 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/21/20 17:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	5,000		ug/kg	1000	12674-11-2	Y
PCB-1242	Not detected	5,000		ug/kg	1000	53469-21-9	Y
PCB-1221	Not detected	5,000		ug/kg	1000	11104-28-2	Y
PCB-1232	Not detected	5,000		ug/kg	1000	11141-16-5	Y
PCB-1248	Not detected	5,000		ug/kg	1000	12672-29-6	Y
PCB-1254	26,000	5,000		ug/kg	1000	11097-69-1	Y
PCB-1260	Not detected	5,000		ug/kg	1000	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10981.07
Sample Tag: SB-84-17(1-2)_01062020
Collected Date/Time: 01/06/2020 11:50
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 01/16/20 00:51, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	2,600	300		ug/kg	10	50-32-8	

Lab Sample ID: S10981.08
Sample Tag: SB-84-17(2-4)_01062020
Collected Date/Time: 01/06/2020 12:26
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 01/15/20 21:08, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	

Lab Sample ID: S10981.09
Sample Tag: SB-84-18(0-2)_01062020
Collected Date/Time: 01/06/2020 15:05
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	96	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 01/15/20 21:25, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	

Lab Sample ID: S10981.10
Sample Tag: SB-84-18(2-4)_01062020
Collected Date/Time: 01/06/2020 15:08
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	94	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 01/15/20 21:42, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	

Lab Sample ID: S10981.11
Sample Tag: SB-03-15(1-3)_01062020
Collected Date/Time: 01/06/2020 10:06
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	97	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 01/15/20 21:59, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	

Lab Sample ID: S10981.12
Sample Tag: SB-03-16(1-3)_01062020
Collected Date/Time: 01/06/2020 10:15
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 01/15/20 22:17, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	

Lab Sample ID: S10981.13
Sample Tag: SB-81-35(0-2)_01062020
Collected Date/Time: 01/06/2020 10:30
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.14
Sample Tag: SB-81-35(3-5)_01062020
Collected Date/Time: 01/06/2020 10:35
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:35, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.15
Sample Tag: SB-03-19(0-2)_01062020
Collected Date/Time: 01/06/2020 11:14
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	01/13/20 12:10	JRH	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Metals

Method: SW6020A, Run Date: 01/14/20 12:53, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	489	0.50		mg/kg	230	7439-96-5	

Lab Sample ID: S10981.16
Sample Tag: SB-03-18(1-2)_01062020
Collected Date/Time: 01/06/2020 11:33
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	01/13/20 12:10	JRH	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Metals

Method: SW6020A, Run Date: 01/14/20 12:54, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	185	0.50		mg/kg	227	7439-96-5	

Lab Sample ID: S10981.17
Sample Tag: SB-03-18(2-3)_01062020
Collected Date/Time: 01/06/2020 11:38
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Other / Misc.

Method: , Run Date: 01/09/20 16:00, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S10981.18
Sample Tag: SB-03-17(1-2)_01062020
Collected Date/Time: 01/06/2020 12:03
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	01/13/20 12:10	JRH	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Metals

Method: SW6020A, Run Date: 01/14/20 12:55, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	962	0.50		mg/kg	230	7439-96-5	

Lab Sample ID: S10981.19
Sample Tag: SB-03-17(2-3)_01062020
Collected Date/Time: 01/06/2020 12:08
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Other / Misc.

Method: , Run Date: 01/09/20 16:00, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S10981.20
Sample Tag: SB-10-47(1-3)_01062020
Collected Date/Time: 01/06/2020 12:47
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 15:55, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:47, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.21
Sample Tag: SB-10-47(4-6)_01062020
Collected Date/Time: 01/06/2020 12:58
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 15:55, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 17:39, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000		ug/kg	300	12674-11-2	Y
PCB-1242	Not detected	2,000		ug/kg	300	53469-21-9	Y
PCB-1221	Not detected	2,000		ug/kg	300	11104-28-2	Y
PCB-1232	Not detected	2,000		ug/kg	300	11141-16-5	Y
PCB-1248	Not detected	2,000		ug/kg	300	12672-29-6	Y
PCB-1254	5,000	2,000		ug/kg	300	11097-69-1	Y
PCB-1260	Not detected	2,000		ug/kg	300	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10981.22
Sample Tag: SB-10-44(1-3)_01062020
Collected Date/Time: 01/06/2020 13:57
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 15:55, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:59, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID:S10981
Client:ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30006800.01904 Buick City - Restrictive Covenant Delineation
Submitted:01/09/2020 14:10 Login User: SRS

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.1
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[ ] Yes	[ ] No	[X] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

112206

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphery, Joey Barker, Erin Kozak, Mary Catherine Goddard
COMPANY: Accadis
ADDRESS: 28550 Cabot Dr # 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: —
P.O. NO.: 30006800.01904
E-MAIL ADDRESS: micki.maki@accadis.com
QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904 Quick City - Restrictive Covenant Delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Christina Weaver / Christina Weaver
TURNAROUND TIME REQUIRED: ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☒ OTHER — See Special Instructions
DELIVERABLES REQUIRED: ☒ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Benzo(a)Pyrene	PCBs	Manganese	Do Not Analyze	Special Instructions
10981.01	1/6/2020	1412	SB-10-44(4-6)_01062020	S	1	1								X			5 day TAT
.02	1/6/2020	1444	SB-10-46(1-3)_01062020	S	1	1								X			5 day TAT
.03	1/6/2020	1503	SB-10-46(4-6)_01062020	S	1	1								X			5 day TAT
.04	1/6/2020	1536	SB-10-48(1-3)_01062020	S	1	1								X			Extract and Hold PCBs
.05	1/6/2020	1538	SB-10-48(4-6)_01062020	S	1	1								X			Extract and Hold PCBs
.06	1/6/2020	1540	SB-10-48(6-8)_01062020	S	1	1								X			Extract and Hold PCBs
.07	1/7/2020	1150	SB-84-17(1-2)_01062020	S	1	1							X				
.08	1/7/2020	1226	SB-84-17(2-4)_01062020	S	1	1							X				
.09	1/7/2020	1505	SB-84-18(0-2)_01062020	S	1	1							X				
.10	1/7/2020	1508	SB-84-18(2-4)_01062020	S	1	1							X				

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christina Weaver / Christina Weaver / Accadis ☒ Sampler	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi cold storage / Accadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Accadis	DATE 1-8-20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 1.8.20	TIME 1135

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Mow	DATE 1-9-20	TIME 1410
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 1/9/20	TIME 1410

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS
SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS

NOTES: TEMP. ON ARRIVAL 3.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.16.12

Merit Laboratories, Inc.
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C.O.C. PAGE # 2 OF 2

119269

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Joey Bucker, Erin Kozak, Mary Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: —
P.O. NO.: 30006800.01904
E-MAIL ADDRESS: Micki.Maki@arcadis.com
QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904 Quick City - Restrictive covenant delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☒ OTHER See Spc. Instructions

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Benzo(a)Pyrene	PCBs	Manganese	DO NOT Analyze	Special Instructions
10981.11	1/6/2020	1006	SB-03-15(1-3)_01062020	S	1	1							X				
.12	1/6/2020	1015	SB-03-16(1-3)_01062020	S	1	1							X				
.13	1/6/2020	1030	SB-80-35(0-2)_01062020	S	1	1								X			
.14	1/6/2020	1035	SB-80-35(3-5)_01062020	S	1	1								X			
.15	1/6/2020	1114	SB-03-19(0-2)_01062020	S	1	1									X		
.16	1/6/2020	1133	SB-03-18(1-2)_01062020	S	1	1									X (W)		
.17	1/6/2020	1138	SB-03-18(2-3)_01062020	S	1	1									X	X	DO NOT ANALYZE, discard
.18	1/6/2020	1203	SB-03-17(1-2)_01062020	S	1	1									X		
.19	1/6/2020	1208	SB-03-17(2-3)_01062020	S	1	1									X (W)	X	DO NOT ANALYZE, discard
.20	1/6/2020	1247	SB-10-47(1-3)_01062020	S	1	1								X			
.21	1/6/2020	1258	SB-10-47(4-6)_01062020	S	1	1								X			
.22	1/6/2020	1357	SB-10-44(1-3)_01062020	S	1	1								X			5 day TAT

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christina Weaver / Arcadis (Sampler)	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	/ Arcadis	DATE 1-9-20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 1-9-20	TIME 1135

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 1.9.20	TIME 1410
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 1/9/20	TIME 1410

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Revised Report

Report ID: S10981.01(04)
Generated on 02/19/2021

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

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John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki, Joey Barker, Mary-Catherine.Goddard

Report Summary

Lab Sample ID(s): S10981.01-S10981.22
Project: 30006800.01904 Buick City - Restrictive Covenant Delineation
Collected Date(s): 01/06/2020
Submitted Date/Time: 01/09/2020 14:10
Sampled by: Christina Weaver
P.O. #: 30006800.01904

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Report Narrative

Samples tags revised per client request.

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8270D	SW 846 Method 8270D Revision 4 February 2007

Sample Summary (22 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S10981.01	SB-10-44(4-6)_01062020	Soil	01/06/20 14:12
S10981.02	SB-10-46(1-3)_01062020	Soil	01/06/20 14:44
S10981.03	SB-10-46(4-6)_01062020	Soil	01/06/20 15:03
S10981.04	SB-10-48(1-3)_01062020	Soil	01/06/20 15:36
S10981.05	SB-10-48(4-6)_01062020	Soil	01/06/20 15:38
S10981.06	SB-10-48(6-8)_01062020	Soil	01/06/20 15:40
S10981.07	SB-84-67(1-2)_01062020	Soil	01/06/20 11:50
S10981.08	SB-84-67(2-4)_01062020	Soil	01/06/20 12:26
S10981.09	SB-84-68(0-2)_01062020	Soil	01/06/20 15:05
S10981.10	SB-84-68(2-4)_01062020	Soil	01/06/20 15:08
S10981.11	SB-03-15(1-3)_01062020	Soil	01/06/20 10:06
S10981.12	SB-03-16(1-3)_01062020	Soil	01/06/20 10:15
S10981.13	SB-81-35(0-2)_01062020	Soil	01/06/20 10:30
S10981.14	SB-81-35(3-5)_01062020	Soil	01/06/20 10:35
S10981.15	SB-03-19(0-2)_01062020	Soil	01/06/20 11:14
S10981.16	SB-03-18(1-2)_01062020	Soil	01/06/20 11:33
S10981.17	SB-03-18(2-3)_01062020	Soil	01/06/20 11:38
S10981.18	SB-03-17(1-2)_01062020	Soil	01/06/20 12:03
S10981.19	SB-03-17(2-3)_01062020	Soil	01/06/20 12:08
S10981.20	SB-10-47(1-3)_01062020	Soil	01/06/20 12:47
S10981.21	SB-10-47(4-6)_01062020	Soil	01/06/20 12:58
S10981.22	SB-10-44(1-3)_01062020	Soil	01/06/20 13:57

Lab Sample ID: S10981.01
Sample Tag: SB-10-44(4-6)_01062020
Collected Date/Time: 01/06/2020 14:12
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 17:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	400	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.02
Sample Tag: SB-10-46(1-3)_01062020
Collected Date/Time: 01/06/2020 14:44
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.03
Sample Tag: SB-10-46(4-6)_01062020
Collected Date/Time: 01/06/2020 15:03
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.04
Sample Tag: SB-10-48(1-3)_01062020
Collected Date/Time: 01/06/2020 15:36
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/21/20 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	92	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/21/20 16:05, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	400	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.05
Sample Tag: SB-10-48(4-6)_01062020
Collected Date/Time: 01/06/2020 15:38
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/21/20 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	95	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/21/20 16:18, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.06
Sample Tag: SB-10-48(6-8)_01062020
Collected Date/Time: 01/06/2020 15:40
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/21/20 10:05, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/21/20 17:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	5,000		ug/kg	1000	12674-11-2	Y
PCB-1242	Not detected	5,000		ug/kg	1000	53469-21-9	Y
PCB-1221	Not detected	5,000		ug/kg	1000	11104-28-2	Y
PCB-1232	Not detected	5,000		ug/kg	1000	11141-16-5	Y
PCB-1248	Not detected	5,000		ug/kg	1000	12672-29-6	Y
PCB-1254	26,000	5,000		ug/kg	1000	11097-69-1	Y
PCB-1260	Not detected	5,000		ug/kg	1000	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10981.07
Sample Tag: SB-84-67(1-2)_01062020
Collected Date/Time: 01/06/2020 11:50
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 01/16/20 00:51, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	2,600	300		ug/kg	10	50-32-8	

Lab Sample ID: S10981.08
Sample Tag: SB-84-67(2-4)_01062020
Collected Date/Time: 01/06/2020 12:26
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 01/15/20 21:08, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	

Lab Sample ID: S10981.09
Sample Tag: SB-84-68(0-2)_01062020
Collected Date/Time: 01/06/2020 15:05
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	96	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 01/15/20 21:25, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	

Lab Sample ID: S10981.10
Sample Tag: SB-84-68(2-4)_01062020
Collected Date/Time: 01/06/2020 15:08
Matrix: Soil
COC Reference: 112206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	94	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 01/15/20 21:42, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	

Lab Sample ID: S10981.11
Sample Tag: SB-03-15(1-3)_01062020
Collected Date/Time: 01/06/2020 10:06
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	97	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 01/15/20 21:59, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	

Lab Sample ID: S10981.12
Sample Tag: SB-03-16(1-3)_01062020
Collected Date/Time: 01/06/2020 10:15
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	01/13/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 01/15/20 22:17, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	

Lab Sample ID: S10981.13
Sample Tag: SB-81-35(0-2)_01062020
Collected Date/Time: 01/06/2020 10:30
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.14
Sample Tag: SB-81-35(3-5)_01062020
Collected Date/Time: 01/06/2020 10:35
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:35, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.15
Sample Tag: SB-03-19(0-2)_01062020
Collected Date/Time: 01/06/2020 11:14
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	01/13/20 12:10	JRH	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Metals

Method: SW6020A, Run Date: 01/14/20 12:53, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	489	0.50		mg/kg	230	7439-96-5	

Lab Sample ID: S10981.16
Sample Tag: SB-03-18(1-2)_01062020
Collected Date/Time: 01/06/2020 11:33
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	01/13/20 12:10	JRH	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Metals

Method: SW6020A, Run Date: 01/14/20 12:54, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	185	0.50		mg/kg	227	7439-96-5	

Lab Sample ID: S10981.17
Sample Tag: SB-03-18(2-3)_01062020
Collected Date/Time: 01/06/2020 11:38
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Other / Misc.

Method: , Run Date: 01/09/20 16:00, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S10981.18
Sample Tag: SB-03-17(1-2)_01062020
Collected Date/Time: 01/06/2020 12:03
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	01/13/20 12:10	JRH	

Inorganics

Method: SM2540B, Run Date: 01/10/20 11:15, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Metals

Method: SW6020A, Run Date: 01/14/20 12:55, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Manganese	962	0.50		mg/kg	230	7439-96-5	

Lab Sample ID: S10981.19
Sample Tag: SB-03-17(2-3)_01062020
Collected Date/Time: 01/06/2020 12:08
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Other / Misc.

Method: , Run Date: 01/09/20 16:00, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S10981.20
Sample Tag: SB-10-47(1-3)_01062020
Collected Date/Time: 01/06/2020 12:47
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 15:55, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:47, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S10981.21
Sample Tag: SB-10-47(4-6)_01062020
Collected Date/Time: 01/06/2020 12:58
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 15:55, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 17:39, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000		ug/kg	300	12674-11-2	Y
PCB-1242	Not detected	2,000		ug/kg	300	53469-21-9	Y
PCB-1221	Not detected	2,000		ug/kg	300	11104-28-2	Y
PCB-1232	Not detected	2,000		ug/kg	300	11141-16-5	Y
PCB-1248	Not detected	2,000		ug/kg	300	12672-29-6	Y
PCB-1254	5,000	2,000		ug/kg	300	11097-69-1	Y
PCB-1260	Not detected	2,000		ug/kg	300	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S10981.22
Sample Tag: SB-10-44(1-3)_01062020
Collected Date/Time: 01/06/2020 13:57
Matrix: Soil
COC Reference: 119269

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	01/14/20 12:30	JL	

Inorganics

Method: SM2540B, Run Date: 01/10/20 15:55, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 01/15/20 18:59, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID:S10981
Client:ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30006800.01904 Buick City - Restrictive Covenant Delineation
Submitted:01/09/2020 14:10 Login User: SRS

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.1
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[ ] Yes	[ ] No	[X] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

112206

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphery, Joey Barker, Erin Kozak, Mary Catherine Goddard
COMPANY: Accadis
ADDRESS: 28550 Cabot Dr # 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: —
P.O. NO.: 30006800.01904
E-MAIL ADDRESS: micki.maki@accadis.com
QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904 Quick City - Restrictive Covenant Delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Christina Weaver / Christina Weaver
TURNAROUND TIME REQUIRED: ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☒ OTHER — See Special Instructions
DELIVERABLES REQUIRED: ☒ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Benzo(a)Pyrene	PCBs	Manganese	Do Not Analyze	Special Instructions
10981.01	1/6/2020	1412	SB-10-44(4-6)_01062020	S	1	1								X			5 day TAT
.02	1/6/2020	1444	SB-10-46(1-3)_01062020	S	1	1								X			5 day TAT
.03	1/6/2020	1503	SB-10-46(4-6)_01062020	S	1	1								X			5 day TAT
.04	1/6/2020	1536	SB-10-48(1-3)_01062020	S	1	1								X			Extract and Hold PCBs
.05	1/6/2020	1538	SB-10-48(4-6)_01062020	S	1	1								X			Extract and Hold PCBs
.06	1/6/2020	1540	SB-10-48(6-8)_01062020	S	1	1								X			Extract and Hold PCBs
.07	1/7/2020	1150	SB-84-17(1-2)_01062020	S	1	1							X				
.08	1/7/2020	1226	SB-84-17(2-4)_01062020	S	1	1							X				
.09	1/7/2020	1505	SB-84-18(0-2)_01062020	S	1	1							X				
.10	1/7/2020	1508	SB-84-18(2-4)_01062020	S	1	1							X				

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christina Weaver / Christina Weaver / Accadis ☒ Sampler	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi cold storage / Accadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Accadis	DATE 1-8-20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 1.8.20	TIME 1135

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Mow	DATE 1-9-20	TIME 1410
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 1/9/20	TIME 1410

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS
SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS

NOTES: TEMP. ON ARRIVAL 3.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.16.12

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C.O.C. PAGE # 2 OF 2

119269

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Joey Bucker, Erin Kozak, Mary Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: —
P.O. NO.: 30006800.01904
E-MAIL ADDRESS: Micki.Maki@arcadis.com
QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30006800.01904 Quick City - Restrictive covenant delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☒ OTHER See Spc. Instructions

DELIVERABLES REQUIRED ☑ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Benzo(a)Pyrene	PCBs	Manganese	DO NOT Analyze	Special Instructions
10981.11	1/6/2020	1006	SB-03-15(1-3)_01062020	S	1	1							X				
.12	1/6/2020	1015	SB-03-16(1-3)_01062020	S	1	1							X				
.13	1/6/2020	1030	SB-80-35(0-2)_01062020	S	1	1								X			
.14	1/6/2020	1035	SB-80-35(3-5)_01062020	S	1	1								X			
.15	1/6/2020	1114	SB-03-19(0-2)_01062020	S	1	1									X		
.16	1/6/2020	1133	SB-03-18(1-2)_01062020	S	1	1									X (W)		
.17	1/6/2020	1138	SB-03-18(2-3)_01062020	S	1	1									X	X	DO NOT ANALYZE, discard
.18	1/6/2020	1203	SB-03-17(1-2)_01062020	S	1	1									X		
.19	1/6/2020	1208	SB-03-17(2-3)_01062020	S	1	1									X (W)	X	DO NOT ANALYZE, discard
.20	1/6/2020	1247	SB-10-47(1-3)_01062020	S	1	1								X			
.21	1/6/2020	1258	SB-10-47(4-6)_01062020	S	1	1								X			
.22	1/6/2020	1357	SB-10-44(1-3)_01062020	S	1	1								X			5 day TAT

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Christina Weaver / Arcadis (Sampler)	DATE 1/7/2020	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage / Arcadis	DATE 1/7/2020	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	/ Arcadis	DATE 1-9-20	TIME 1135
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 1-9-20	TIME 1135

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 1.9.20	TIME 1410
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 1/9/20	TIME 1410

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S12297.01(01)
Generated on 03/05/2020

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Report produced by

Merit Laboratories, Inc.
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East Lansing, MI 48823

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Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki, Joey Barker, Mary-Catherine Goddard

Report Summary

Lab Sample ID(s): S12297.01-S12297.38
Project: Buick City Drilling / Soil Sampling
Collected Date(s): 02/25/2020 - 02/27/2020
Submitted Date/Time: 02/28/2020 12:45
Sampled by: Madison Olender
P.O. #: 30043300

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (38 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S12297.01	SB-DH-RW-1-29(3-5)	Soil	02/25/20 09:50
S12297.02	SB-DH-RW-1-29(5-7)	Soil	02/25/20 09:50
S12297.03	SB-DH-RW-1-30(3-5)	Soil	02/25/20 10:10
S12297.04	SB-DH-RW-1-30(5-7)	Soil	02/25/20 10:10
S12297.05	SB-DH-RW-1-31(12-14)	Soil	02/25/20 10:40
S12297.06	SB-DH-RW-1-31(15-17)	Soil	02/25/20 10:40
S12297.07	SB-DH-RW-3-58(15-17)	Soil	02/25/20 11:00
S12297.08	SB-DH-RW-3-56(15-17)	Soil	02/25/20 11:30
S12297.09	SB-DH-RW-3-59(15-17)	Soil	02/25/20 11:45
S12297.10	SB-DH-RW-3-60(15-17)	Soil	02/25/20 13:25
S12297.11	SB-DH-RW-3-57(15-17)	Soil	02/25/20 13:40
S12297.12	SB-10-55(6-8)	Soil	02/25/20 15:15
S12297.13	SB-10-57(6-8)	Soil	02/25/20 14:55
S12297.14	SB-10-56(6-8)	Soil	02/25/20 15:05
S12297.15	SB-10-58(6-8)	Soil	02/25/20 15:25
S12297.16	SB-10-59(6-8)	Soil	02/25/20 15:45
S12297.17	SB-10-60(6-8)	Soil	02/25/20 16:00
S12297.18	SB-10-61(6-8)	Soil	02/25/20 16:10
S12297.19	SB-81-33B(0-2)	Soil	02/26/20 09:55
S12297.20	SB-FEP-12A(0-06)	Soil	02/26/20 12:55
S12297.21	SB-83/84-46(3-5)	Soil	02/26/20 11:15
S12297.22	SB-81-42(0-2)	Soil	02/26/20 09:50
S12297.23	SB-83/84-47(3-5)	Soil	02/26/20 11:05
S12297.24	SB-81-38(0-2)	Soil	02/26/20 10:30
S12297.25	SB-81-38(3-5)	Soil	02/26/20 10:30
S12297.26	SB-81-37(0-2)	Soil	02/26/20 10:15
S12297.27	SB-81-37(3-5)	Soil	02/26/20 10:15
S12297.28	SB-81-39(0-2)	Soil	02/26/20 09:30
S12297.29	SB-81-40(0-2)	Soil	02/26/20 09:40
S12297.30	SB-81-41(0-2)	Soil	02/26/20 09:45
S12297.31	SB-10-62(1-3)	Soil	02/27/20 14:25
S12297.32	SB-10-62(4-6)	Soil	02/27/20 14:25
S12297.33	SB-10-62(7-9)	Soil	02/27/20 14:25
S12297.34	SB-10-63(1-3)	Soil	02/27/20 14:45
S12297.35	SB-10-63(4-6)	Soil	02/27/20 14:45
S12297.36	SB-10-63(8-10)	Soil	02/27/20 14:45
S12297.37	SB-81-36(0-2)	Soil	02/26/20 10:05
S12297.38	SB-81-36(3-5)	Soil	02/26/20 10:05

Lab Sample ID: S12297.01
Sample Tag: SB-DH-RW-1-29(3-5)
Collected Date/Time: 02/25/2020 09:50
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 19:54, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.02
Sample Tag: SB-DH-RW-1-29(5-7)
Collected Date/Time: 02/25/2020 09:50
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 20:06, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.03
Sample Tag: SB-DH-RW-1-30(3-5)
Collected Date/Time: 02/25/2020 10:10
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 15:10, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	3,000		ug/kg	500	12674-11-2	Y
PCB-1242	28,000	3,000		ug/kg	500	53469-21-9	Y
PCB-1221	Not detected	3,000		ug/kg	500	11104-28-2	Y
PCB-1232	Not detected	3,000		ug/kg	500	11141-16-5	Y
PCB-1248	Not detected	3,000		ug/kg	500	12672-29-6	Y
PCB-1254	Not detected	3,000		ug/kg	500	11097-69-1	Y
PCB-1260	Not detected	3,000		ug/kg	500	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12297.04
Sample Tag: SB-DH-RW-1-30(5-7)
Collected Date/Time: 02/25/2020 10:10
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	94	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 17:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000		ug/kg	400	12674-11-2	Y
PCB-1242	11,000	2,000		ug/kg	400	53469-21-9	Y
PCB-1221	Not detected	2,000		ug/kg	400	11104-28-2	Y
PCB-1232	Not detected	2,000		ug/kg	400	11141-16-5	Y
PCB-1248	Not detected	2,000		ug/kg	400	12672-29-6	Y
PCB-1254	Not detected	2,000		ug/kg	400	11097-69-1	Y
PCB-1260	Not detected	2,000		ug/kg	400	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12297.05
Sample Tag: SB-DH-RW-1-31(12-14)
Collected Date/Time: 02/25/2020 10:40
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	77	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 20:18, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.06
Sample Tag: SB-DH-RW-1-31(15-17)
Collected Date/Time: 02/25/2020 10:40
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 20:30, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.07
Sample Tag: SB-DH-RW-3-58(15-17)
Collected Date/Time: 02/25/2020 11:00
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Lab Sample ID: S12297.08
Sample Tag: SB-DH-RW-3-56(15-17)
Collected Date/Time: 02/25/2020 11:30
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 20:53, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.09
Sample Tag: SB-DH-RW-3-59(15-17)
Collected Date/Time: 02/25/2020 11:45
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

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Lab Sample ID: S12297.10
Sample Tag: SB-DH-RW-3-60(15-17)
Collected Date/Time: 02/25/2020 13:25
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Lab Sample ID: S12297.11
Sample Tag: SB-DH-RW-3-57(15-17)
Collected Date/Time: 02/25/2020 13:40
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 16:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	5	12674-11-2	
PCB-1242	Not detected	330		ug/kg	5	53469-21-9	
PCB-1221	Not detected	330		ug/kg	5	11104-28-2	
PCB-1232	Not detected	330		ug/kg	5	11141-16-5	
PCB-1248	Not detected	330		ug/kg	5	12672-29-6	
PCB-1254	Not detected	330		ug/kg	5	11097-69-1	
PCB-1260	Not detected	330		ug/kg	5	11096-82-5	

Lab Sample ID: S12297.12
Sample Tag: SB-10-55(6-8)
Collected Date/Time: 02/25/2020 15:15
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 15:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	1,600	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Lab Sample ID: S12297.13
Sample Tag: SB-10-57(6-8)
Collected Date/Time: 02/25/2020 14:55
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 19:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.14
Sample Tag: SB-10-56(6-8)
Collected Date/Time: 02/25/2020 15:05
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:10, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

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Lab Sample ID: S12297.15
Sample Tag: SB-10-58(6-8)
Collected Date/Time: 02/25/2020 15:25
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

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Lab Sample ID: S12297.16
Sample Tag: SB-10-59(6-8)
Collected Date/Time: 02/25/2020 15:45
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 16:15, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000		ug/kg	300	12674-11-2	Y
PCB-1242	Not detected	2,000		ug/kg	300	53469-21-9	Y
PCB-1221	Not detected	2,000		ug/kg	300	11104-28-2	Y
PCB-1232	Not detected	2,000		ug/kg	300	11141-16-5	Y
PCB-1248	Not detected	2,000		ug/kg	300	12672-29-6	Y
PCB-1254	8,300	2,000		ug/kg	300	11097-69-1	Y
PCB-1260	Not detected	2,000		ug/kg	300	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12297.17
Sample Tag: SB-10-60(6-8)
Collected Date/Time: 02/25/2020 16:00
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	71	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:34, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.18
Sample Tag: SB-10-61(6-8)
Collected Date/Time: 02/25/2020 16:10
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Lab Sample ID: S12297.19
Sample Tag: SB-81-33B(0-2)
Collected Date/Time: 02/26/2020 09:55
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 16:27, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	100	12672-29-6	Y
PCB-1254	1,600	500		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12297.20
Sample Tag: SB-FEP-12A(0-06)
Collected Date/Time: 02/26/2020 12:55
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/02/20 12:30	CCM	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 03/02/20 15:09, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	140	0.30		mg/kg	227	7439-92-1	

Lab Sample ID: S12297.21
Sample Tag: SB-83/84-46(3-5)
Collected Date/Time: 02/26/2020 11:15
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:46, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.22
Sample Tag: SB-81-42(0-2)
Collected Date/Time: 02/26/2020 09:50
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Lab Sample ID: S12297.23
Sample Tag: SB-83/84-47(3-5)
Collected Date/Time: 02/26/2020 11:05
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.24
Sample Tag: SB-81-38(0-2)
Collected Date/Time: 02/26/2020 10:30
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 21:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.25
Sample Tag: SB-81-38(3-5)
Collected Date/Time: 02/26/2020 10:30
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 21:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.26
Sample Tag: SB-81-37(0-2)
Collected Date/Time: 02/26/2020 10:15
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 19:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.27
Sample Tag: SB-81-37(3-5)
Collected Date/Time: 02/26/2020 10:15
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 19:36, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.28
Sample Tag: SB-81-39(0-2)
Collected Date/Time: 02/26/2020 09:30
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Analytical Laboratory Report

Lab Sample ID: S12297.29
Sample Tag: SB-81-40(0-2)
Collected Date/Time: 02/26/2020 09:40
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Lab Sample ID: S12297.30
Sample Tag: SB-81-41(0-2)
Collected Date/Time: 02/26/2020 09:45
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Lab Sample ID: S12297.31
Sample Tag: SB-10-62(1-3)
Collected Date/Time: 02/27/2020 14:25
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 19:48, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	20	12674-11-2	
PCB-1242	Not detected	330		ug/kg	20	53469-21-9	
PCB-1221	Not detected	330		ug/kg	20	11104-28-2	
PCB-1232	Not detected	330		ug/kg	20	11141-16-5	
PCB-1248	600	330		ug/kg	20	12672-29-6	
PCB-1254	Not detected	330		ug/kg	20	11097-69-1	
PCB-1260	Not detected	330		ug/kg	20	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.32
Sample Tag: SB-10-62(4-6)
Collected Date/Time: 02/27/2020 14:25
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 20:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.33
Sample Tag: SB-10-62(7-9)
Collected Date/Time: 02/27/2020 14:25
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL/CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:51, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.34
Sample Tag: SB-10-63(1-3)
Collected Date/Time: 02/27/2020 14:45
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 20:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.35
Sample Tag: SB-10-63(4-6)
Collected Date/Time: 02/27/2020 14:45
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 21:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.36
Sample Tag: SB-10-63(8-10)
Collected Date/Time: 02/27/2020 14:45
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 21:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.37
Sample Tag: SB-81-36(0-2)
Collected Date/Time: 02/26/2020 10:05
Matrix: Soil
COC Reference: 133442

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 20:24, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.38
Sample Tag: SB-81-36(3-5)
Collected Date/Time: 02/26/2020 10:05
Matrix: Soil
COC Reference: 133442

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	74	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 20:36, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S12297
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: Buick City Drilling / Soil Sampling
Submitted: 02/28/2020 12:45 Login User: MMC

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.3
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
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C.O.C. PAGE # _____ OF _____

133489

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Erin Kozak, Joey Barker, Mary-Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.:
P.O. NO.: 30043300
E-MAIL ADDRESS: micki.maki@arcadis.com
QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: Buick City Drilling/Soil sampling
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☒ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
12297.01	2/25/20	0950	SB-DH-RW-1-29(3-5)	S	1	X								
.02		0950	SB-DH-RW-1-29(5-7)											
.03		1010	SB-DH-RW-1-30(3-5)											
.04		1010	SB-DH-RW-1-30(5-7)											
.05		1040	SB-DH-RW-1-31(12-14)											
.06		1040	SB-DH-RW-1-31(15-17)											
.07		1100	SB-DH-RW-3-58(15-17)											extract and hold
.08		1130	SB-DH-RW-3-56(15-17)											
.09		1145	SB-DH-RW-3-59(15-17)											extract and hold
.10		1325	SB-DH-RW-3-60(15-17)											extract and hold
.11		1340	SB-DH-RW-3-57(15-17)											
.12		1515	SB-10-55(6-8)											

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature] / Arcadis ☒ Sampler DATE 2/27/20 TIME 1800
RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION M. Humphrey DATE 2-28-20 TIME 1030
RECEIVED BY: SIGNATURE/ORGANIZATION Mag DATE 2-28-20 TIME 1030

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature] DATE 2-28-20 TIME 1245
RECEIVED BY: SIGNATURE/ORGANIZATION [signature] DATE 2/28/2020 TIME 1245

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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Merit Laboratories, Inc.
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C.O.C. PAGE # _____ OF _____

133486

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Erin Kozak, Joey Parker, Mary Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: P.O. NO.: 30043300
E-MAIL ADDRESS: micki.maki@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: Buick City Drilling/Soil Sampling
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Lead	Special Instructions
12297.13	2/25/20	1455	SB-10-57(6-8)	S	1	X							X		
.14		1505	SB-10-56(6-8)												
.15		1525	SB-10-58(6-8)												
.16		1545	SB-10-59(6-8)												
.17		1600	SB-10-60(6-8)												
.18		1610	SB-10-61(6-8)												extract and hold
.19	2/26/20	0955	SB-81-33B(0-2)												
.20		1255	SB-FEP-12A(0-06)											X	
.21		1115	SB-83/84-46(3-5)										X		
.22		0950	SB-81-42(0-2)												extract and hold
.23		1105	SB-83/84-47(3-5)												
.24		1030	SB-81-38(0-2)												

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Micki Maki/Arcadis ☒ Sampler DATE: 2/27/20 TIME: 1800
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION: M. Humphrey DATE: 2-28-20 TIME: 1630
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: 2-28-20 TIME: 1630

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Mad DATE: 2.28.20 TIME: 1245
RECEIVED BY: SIGNATURE/ORGANIZATION: M Arnold DATE: 2/28/2020 TIME: 1245

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL: 3.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # _____ OF _____

133441

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Erin Kozak, Joey Barker, Mary-Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr # 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.:
P.O. NO.: 30043300
E-MAIL ADDRESS: micki.maki@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: Buick City Drilling/Soil Sampling
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☒ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
12297.25	2/26/20	1030	SB-81-38(3-5)	S	1	X							X	
.26		1015	SB-81-37(0-2)											
.27		1015	SB-81-37(3-5)											
.28		0930	SB-81-39(0-2)											extract and hold
.29		0940	SB-81-40(0-2)											
.30		0945	SB-81-41(0-2)											
.31	2/27/20	1425	SB-10-62(1-3)											
.32			SB-10-62(4-6)											
.33			SB-10-62(7-9)											
.34		1445	SB-10-63(1-3)											
.35			SB-10-63(4-6)											
.36			SB-10-63(8-10)											

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] / Arcadis ☒ Sampler DATE: 2/27/20 TIME: 1800
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 2.28.2 TIME: 1245
RECEIVED BY: SIGNATURE/ORGANIZATION: M Abbott DATE: 2/28/2020 TIME: 1245

RELINQUISHED BY: SIGNATURE/ORGANIZATION: M-Humphrey DATE: 2.28.20 TIME: 1030
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 2.28.20 TIME: 1030

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.3

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C.O.C. PAGE # _____ OF _____

133442

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Erin Kozak, Joey Parker, Mary Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 734-732-3671 | FAX NO.: | P.O. NO.:
E-MAIL ADDRESS: micki.maki@arcadis-com | QUOTE NO.:

INVOICE TO

CONTACT NAME | ☐ SAME
COMPANY
ADDRESS
CITY | STATE | ZIP CODE
PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME: Buick City Drilling / Soil Sampling | SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Dender / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☒ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBS
12297.37	2/26/20	1005	SB-81-36(0-2)	S	1	X							X
.38	1	1	SB-81-36(3-5)	1	1	1							1

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature] Arcadis ☒ Sampler | DATE 2/27/20 | TIME 1800
RECEIVED BY: SIGNATURE/ORGANIZATION | DATE | TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature] | DATE 2-28-20 | TIME 1245
RECEIVED BY: SIGNATURE/ORGANIZATION M Arcadis | DATE 2/28/2020 | TIME 1245

RELINQUISHED BY: SIGNATURE/ORGANIZATION M. Humphrey | DATE 2-28-20 | TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION [signature] | DATE 2-28-20 | TIME 1630

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: | TEMP. ON ARRIVAL 3.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S12297.01(01)
Generated on 03/05/2020

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki, Joey Barker, Mary-Catherine Goddard

Report Summary

Lab Sample ID(s): S12297.01-S12297.38
Project: Buick City Drilling / Soil Sampling
Collected Date(s): 02/25/2020 - 02/27/2020
Submitted Date/Time: 02/28/2020 12:45
Sampled by: Madison Olender
P.O. #: 30043300

Table of Contents

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General Report Notes (Page 2)
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Sample Summary (Page 5)



Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (38 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S12297.01	SB-DH-RW-1-29(3-5)	Soil	02/25/20 09:50
S12297.02	SB-DH-RW-1-29(5-7)	Soil	02/25/20 09:50
S12297.03	SB-DH-RW-1-30(3-5)	Soil	02/25/20 10:10
S12297.04	SB-DH-RW-1-30(5-7)	Soil	02/25/20 10:10
S12297.05	SB-DH-RW-1-31(12-14)	Soil	02/25/20 10:40
S12297.06	SB-DH-RW-1-31(15-17)	Soil	02/25/20 10:40
S12297.07	SB-DH-RW-3-58(15-17)	Soil	02/25/20 11:00
S12297.08	SB-DH-RW-3-56(15-17)	Soil	02/25/20 11:30
S12297.09	SB-DH-RW-3-59(15-17)	Soil	02/25/20 11:45
S12297.10	SB-DH-RW-3-60(15-17)	Soil	02/25/20 13:25
S12297.11	SB-DH-RW-3-57(15-17)	Soil	02/25/20 13:40
S12297.12	SB-10-55(6-8)	Soil	02/25/20 15:15
S12297.13	SB-10-57(6-8)	Soil	02/25/20 14:55
S12297.14	SB-10-56(6-8)	Soil	02/25/20 15:05
S12297.15	SB-10-58(6-8)	Soil	02/25/20 15:25
S12297.16	SB-10-59(6-8)	Soil	02/25/20 15:45
S12297.17	SB-10-60(6-8)	Soil	02/25/20 16:00
S12297.18	SB-10-61(6-8)	Soil	02/25/20 16:10
S12297.19	SB-81-33B(0-2)	Soil	02/26/20 09:55
S12297.20	SB-FEP-12A(0-06)	Soil	02/26/20 12:55
S12297.21	SB-83/84-46(3-5)	Soil	02/26/20 11:15
S12297.22	SB-81-42(0-2)	Soil	02/26/20 09:50
S12297.23	SB-83/84-47(3-5)	Soil	02/26/20 11:05
S12297.24	SB-81-38(0-2)	Soil	02/26/20 10:30
S12297.25	SB-81-38(3-5)	Soil	02/26/20 10:30
S12297.26	SB-81-37(0-2)	Soil	02/26/20 10:15
S12297.27	SB-81-37(3-5)	Soil	02/26/20 10:15
S12297.28	SB-81-39(0-2)	Soil	02/26/20 09:30
S12297.29	SB-81-40(0-2)	Soil	02/26/20 09:40
S12297.30	SB-81-41(0-2)	Soil	02/26/20 09:45
S12297.31	SB-10-62(1-3)	Soil	02/27/20 14:25
S12297.32	SB-10-62(4-6)	Soil	02/27/20 14:25
S12297.33	SB-10-62(7-9)	Soil	02/27/20 14:25
S12297.34	SB-10-63(1-3)	Soil	02/27/20 14:45
S12297.35	SB-10-63(4-6)	Soil	02/27/20 14:45
S12297.36	SB-10-63(8-10)	Soil	02/27/20 14:45
S12297.37	SB-81-36(0-2)	Soil	02/26/20 10:05
S12297.38	SB-81-36(3-5)	Soil	02/26/20 10:05

Lab Sample ID: S12297.01
Sample Tag: SB-DH-RW-1-29(3-5)
Collected Date/Time: 02/25/2020 09:50
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 19:54, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.02
Sample Tag: SB-DH-RW-1-29(5-7)
Collected Date/Time: 02/25/2020 09:50
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 20:06, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.03
Sample Tag: SB-DH-RW-1-30(3-5)
Collected Date/Time: 02/25/2020 10:10
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 15:10, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	3,000		ug/kg	500	12674-11-2	Y
PCB-1242	28,000	3,000		ug/kg	500	53469-21-9	Y
PCB-1221	Not detected	3,000		ug/kg	500	11104-28-2	Y
PCB-1232	Not detected	3,000		ug/kg	500	11141-16-5	Y
PCB-1248	Not detected	3,000		ug/kg	500	12672-29-6	Y
PCB-1254	Not detected	3,000		ug/kg	500	11097-69-1	Y
PCB-1260	Not detected	3,000		ug/kg	500	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12297.04
Sample Tag: SB-DH-RW-1-30(5-7)
Collected Date/Time: 02/25/2020 10:10
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	94	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 17:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000		ug/kg	400	12674-11-2	Y
PCB-1242	11,000	2,000		ug/kg	400	53469-21-9	Y
PCB-1221	Not detected	2,000		ug/kg	400	11104-28-2	Y
PCB-1232	Not detected	2,000		ug/kg	400	11141-16-5	Y
PCB-1248	Not detected	2,000		ug/kg	400	12672-29-6	Y
PCB-1254	Not detected	2,000		ug/kg	400	11097-69-1	Y
PCB-1260	Not detected	2,000		ug/kg	400	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12297.05
Sample Tag: SB-DH-RW-1-31(12-14)
Collected Date/Time: 02/25/2020 10:40
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	77	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 20:18, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.06
Sample Tag: SB-DH-RW-1-31(15-17)
Collected Date/Time: 02/25/2020 10:40
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 20:30, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.07
Sample Tag: SB-DH-RW-3-58(15-17)
Collected Date/Time: 02/25/2020 11:00
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Lab Sample ID: S12297.08
Sample Tag: SB-DH-RW-3-56(15-17)
Collected Date/Time: 02/25/2020 11:30
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 20:53, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.09
Sample Tag: SB-DH-RW-3-59(15-17)
Collected Date/Time: 02/25/2020 11:45
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Analytical Laboratory Report

Lab Sample ID: S12297.10
Sample Tag: SB-DH-RW-3-60(15-17)
Collected Date/Time: 02/25/2020 13:25
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Lab Sample ID: S12297.11
Sample Tag: SB-DH-RW-3-57(15-17)
Collected Date/Time: 02/25/2020 13:40
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 16:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	5	12674-11-2	
PCB-1242	Not detected	330		ug/kg	5	53469-21-9	
PCB-1221	Not detected	330		ug/kg	5	11104-28-2	
PCB-1232	Not detected	330		ug/kg	5	11141-16-5	
PCB-1248	Not detected	330		ug/kg	5	12672-29-6	
PCB-1254	Not detected	330		ug/kg	5	11097-69-1	
PCB-1260	Not detected	330		ug/kg	5	11096-82-5	

Lab Sample ID: S12297.12
Sample Tag: SB-10-55(6-8)
Collected Date/Time: 02/25/2020 15:15
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 15:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	1,600	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Lab Sample ID: S12297.13
Sample Tag: SB-10-57(6-8)
Collected Date/Time: 02/25/2020 14:55
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 19:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.14
Sample Tag: SB-10-56(6-8)
Collected Date/Time: 02/25/2020 15:05
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:10, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.15
Sample Tag: SB-10-58(6-8)
Collected Date/Time: 02/25/2020 15:25
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.16
Sample Tag: SB-10-59(6-8)
Collected Date/Time: 02/25/2020 15:45
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 16:15, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000		ug/kg	300	12674-11-2	Y
PCB-1242	Not detected	2,000		ug/kg	300	53469-21-9	Y
PCB-1221	Not detected	2,000		ug/kg	300	11104-28-2	Y
PCB-1232	Not detected	2,000		ug/kg	300	11141-16-5	Y
PCB-1248	Not detected	2,000		ug/kg	300	12672-29-6	Y
PCB-1254	8,300	2,000		ug/kg	300	11097-69-1	Y
PCB-1260	Not detected	2,000		ug/kg	300	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12297.17
Sample Tag: SB-10-60(6-8)
Collected Date/Time: 02/25/2020 16:00
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	71	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:34, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.18
Sample Tag: SB-10-61(6-8)
Collected Date/Time: 02/25/2020 16:10
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Lab Sample ID: S12297.19
Sample Tag: SB-81-33B(0-2)
Collected Date/Time: 02/26/2020 09:55
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 16:27, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	100	12672-29-6	Y
PCB-1254	1,600	500		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12297.20
Sample Tag: SB-FEP-12A(0-06)
Collected Date/Time: 02/26/2020 12:55
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/02/20 12:30	CCM	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 03/02/20 15:09, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	140	0.30		mg/kg	227	7439-92-1	

Lab Sample ID: S12297.21
Sample Tag: SB-83/84-46(3-5)
Collected Date/Time: 02/26/2020 11:15
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:46, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.22
Sample Tag: SB-81-42(0-2)
Collected Date/Time: 02/26/2020 09:50
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Lab Sample ID: S12297.23
Sample Tag: SB-83/84-47(3-5)
Collected Date/Time: 02/26/2020 11:05
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.24
Sample Tag: SB-81-38(0-2)
Collected Date/Time: 02/26/2020 10:30
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 21:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.25
Sample Tag: SB-81-38(3-5)
Collected Date/Time: 02/26/2020 10:30
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 21:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.26
Sample Tag: SB-81-37(0-2)
Collected Date/Time: 02/26/2020 10:15
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 19:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.27
Sample Tag: SB-81-37(3-5)
Collected Date/Time: 02/26/2020 10:15
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 19:36, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.28
Sample Tag: SB-81-39(0-2)
Collected Date/Time: 02/26/2020 09:30
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Analytical Laboratory Report

Lab Sample ID: S12297.29
Sample Tag: SB-81-40(0-2)
Collected Date/Time: 02/26/2020 09:40
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Lab Sample ID: S12297.30
Sample Tag: SB-81-41(0-2)
Collected Date/Time: 02/26/2020 09:45
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Lab Sample ID: S12297.31
Sample Tag: SB-10-62(1-3)
Collected Date/Time: 02/27/2020 14:25
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 19:48, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	20	12674-11-2	
PCB-1242	Not detected	330		ug/kg	20	53469-21-9	
PCB-1221	Not detected	330		ug/kg	20	11104-28-2	
PCB-1232	Not detected	330		ug/kg	20	11141-16-5	
PCB-1248	600	330		ug/kg	20	12672-29-6	
PCB-1254	Not detected	330		ug/kg	20	11097-69-1	
PCB-1260	Not detected	330		ug/kg	20	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.32
Sample Tag: SB-10-62(4-6)
Collected Date/Time: 02/27/2020 14:25
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 20:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.33
Sample Tag: SB-10-62(7-9)
Collected Date/Time: 02/27/2020 14:25
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL/CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:51, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.34
Sample Tag: SB-10-63(1-3)
Collected Date/Time: 02/27/2020 14:45
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 20:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.35
Sample Tag: SB-10-63(4-6)
Collected Date/Time: 02/27/2020 14:45
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 21:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.36
Sample Tag: SB-10-63(8-10)
Collected Date/Time: 02/27/2020 14:45
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 21:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.37
Sample Tag: SB-81-36(0-2)
Collected Date/Time: 02/26/2020 10:05
Matrix: Soil
COC Reference: 133442

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 20:24, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12297.38
Sample Tag: SB-81-36(3-5)
Collected Date/Time: 02/26/2020 10:05
Matrix: Soil
COC Reference: 133442

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	74	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 20:36, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S12297
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: Buick City Drilling / Soil Sampling
Submitted: 02/28/2020 12:45 Login User: MMC

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.3
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

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Phone (517) 332-0167 Fax (517) 332-4034
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C.O.C. PAGE # _____ OF _____

133489

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Erin Kozak, Joey Barker, Mary-Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.:
P.O. NO.: 30043300
E-MAIL ADDRESS: micki.maki@arcadis.com
QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: Buick City Drilling/Soil sampling
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☒ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
12297.01	2/25/20	0950	SB-DH-RW-1-29(3-5)	S	1	X								
.02		0950	SB-DH-RW-1-29(5-7)											
.03		1010	SB-DH-RW-1-30(3-5)											
.04		1010	SB-DH-RW-1-30(5-7)											
.05		1040	SB-DH-RW-1-31(12-14)											
.06		1040	SB-DH-RW-1-31(15-17)											
.07		1100	SB-DH-RW-3-58(15-17)											extract and hold
.08		1130	SB-DH-RW-3-56(15-17)											
.09		1145	SB-DH-RW-3-59(15-17)											extract and hold
.10		1325	SB-DH-RW-3-60(15-17)											extract and hold
.11		1340	SB-DH-RW-3-57(15-17)											
.12		1515	SB-10-55(6-8)											

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature] / Arcadis ☒ Sampler DATE 2/27/20 TIME 1800
RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION M. Humphrey DATE 2-28-20 TIME 1030
RECEIVED BY: SIGNATURE/ORGANIZATION Mag DATE 2-28-20 TIME 1030

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature] DATE 2-28-20 TIME 1245
RECEIVED BY: SIGNATURE/ORGANIZATION [signature] DATE 2/28/2020 TIME 1245

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # _____ OF _____

133486

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Erin Kozak, Joey Parker, Mary Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: P.O. NO.: 30043300
E-MAIL ADDRESS: micki.maki@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: Buick City Drilling/Soil Sampling
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Lead	Special Instructions
12297.13	2/25/20	1455	SB-10-57(6-8)	S	1	X							X		
.14		1505	SB-10-56(6-8)												
.15		1525	SB-10-58(6-8)												
.16		1545	SB-10-59(6-8)												
.17		1600	SB-10-60(6-8)												
.18		1610	SB-10-61(6-8)												extract and hold
.19	2/26/20	0955	SB-81-33B(0-2)												
.20		1255	SB-FEP-12A(0-06)											X	
.21		1115	SB-83/84-46(3-5)										X		
.22		0950	SB-81-42(0-2)												extract and hold
.23		1105	SB-83/84-47(3-5)												
.24		1030	SB-81-38(0-2)												

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Micki Maki/Arcadis ☒ Sampler DATE: 2/27/20 TIME: 1800
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION: M. Humphrey DATE: 2-28-20 TIME: 1630
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: 2-28-20 TIME: 1630

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Mad DATE: 2.28.20 TIME: 1245
RECEIVED BY: SIGNATURE/ORGANIZATION: M Arnold DATE: 2/28/2020 TIME: 1245

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL: 3.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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133441

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Erin Kozak, Joey Barker, Mary-Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr # 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.:
P.O. NO.: 30043300
E-MAIL ADDRESS: micki.maki@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: Buick City Drilling/Soil Sampling
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☒ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
12297.25	2/26/20	1030	SB-81-38(3-5)	S	1	X							X	
.26		1015	SB-81-37(0-2)											
.27		1015	SB-81-37(3-5)											
.28		0930	SB-81-39(0-2)											extract and hold
.29		0940	SB-81-40(0-2)											
.30		0945	SB-81-41(0-2)											
.31	2/27/20	1425	SB-10-62(1-3)											
.32			SB-10-62(4-6)											
.33			SB-10-62(7-9)											
.34		1445	SB-10-63(1-3)											
.35			SB-10-63(4-6)											
.36			SB-10-63(8-10)											

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] / Arcadis ☒ Sampler DATE: 2/27/20 TIME: 1800
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 2.28.2 TIME: 1245
RECEIVED BY: SIGNATURE/ORGANIZATION: M Abbott DATE: 2/28/2020 TIME: 1245

RELINQUISHED BY: SIGNATURE/ORGANIZATION: M-Humphrey DATE: 2.28.20 TIME: 1030
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 2.28.20 TIME: 1030

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.3

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C.O.C. PAGE # _____ OF _____

133442

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Erin Kozak, Joey Parker, Mary Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 734-732-3671 | FAX NO.: | P.O. NO.:
E-MAIL ADDRESS: micki.maki@arcadis-com | QUOTE NO.:

INVOICE TO

CONTACT NAME | ☐ SAME
COMPANY
ADDRESS
CITY | STATE | ZIP CODE
PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME: Buick City Drilling / Soil Sampling | SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Dender / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☒ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBS
12297.37	2/26/20	1005	SB-81-36(0-2)	S	1	X							X
.38	1	1	SB-81-36(3-5)	1	1	1							1

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature] Arcadis ☒ Sampler | DATE 2/27/20 | TIME 1800
RECEIVED BY: SIGNATURE/ORGANIZATION | DATE | TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature] | DATE 2-28-20 | TIME 1245
RECEIVED BY: SIGNATURE/ORGANIZATION M Arcadis | DATE 2/28/2020 | TIME 1245

RELINQUISHED BY: SIGNATURE/ORGANIZATION M. Humphrey | DATE 2-28-20 | TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION [signature] | DATE 2-28-20 | TIME 1630

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: | TEMP. ON ARRIVAL 3.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Supplemental Report

Report ID: S12297.01(02)
Generated on 03/10/2020

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki, Joey Barker, Mary-Catherine Goddard

Report Summary

Lab Sample ID(s): S12297.01-S12297.38
Project: Buick City Drilling / Soil Sampling
Collected Date(s): 02/25/2020 - 02/27/2020
Submitted Date/Time: 02/28/2020 12:45
Sampled by: Madison Olender
P.O. #: 30043300

Table of Contents

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General Report Notes (Page 2)
Report Narrative (Page 2)
Laboratory Certifications (Page 3)
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Glossary of Abbreviations (Page 3)
Method Summary (Page 4)
Sample Summary (Page 5)

Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

PCBs added to samples .22, and .28-.30 per client request.

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (38 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S12297.01	SB-DH-RW-1-29(3-5)	Soil	02/25/20 09:50
S12297.02	SB-DH-RW-1-29(5-7)	Soil	02/25/20 09:50
S12297.03	SB-DH-RW-1-30(3-5)	Soil	02/25/20 10:10
S12297.04	SB-DH-RW-1-30(5-7)	Soil	02/25/20 10:10
S12297.05	SB-DH-RW-1-31(12-14)	Soil	02/25/20 10:40
S12297.06	SB-DH-RW-1-31(15-17)	Soil	02/25/20 10:40
S12297.07	SB-DH-RW-3-58(15-17)	Soil	02/25/20 11:00
S12297.08	SB-DH-RW-3-56(15-17)	Soil	02/25/20 11:30
S12297.09	SB-DH-RW-3-59(15-17)	Soil	02/25/20 11:45
S12297.10	SB-DH-RW-3-60(15-17)	Soil	02/25/20 13:25
S12297.11	SB-DH-RW-3-57(15-17)	Soil	02/25/20 13:40
S12297.12	SB-10-55(6-8)	Soil	02/25/20 15:15
S12297.13	SB-10-57(6-8)	Soil	02/25/20 14:55
S12297.14	SB-10-56(6-8)	Soil	02/25/20 15:05
S12297.15	SB-10-58(6-8)	Soil	02/25/20 15:25
S12297.16	SB-10-59(6-8)	Soil	02/25/20 15:45
S12297.17	SB-10-60(6-8)	Soil	02/25/20 16:00
S12297.18	SB-10-61(6-8)	Soil	02/25/20 16:10
S12297.19	SB-81-33B(0-2)	Soil	02/26/20 09:55
S12297.20	SB-FEP-12A(0-06)	Soil	02/26/20 12:55
S12297.21	SB-83/84-46(3-5)	Soil	02/26/20 11:15
S12297.22	SB-81-42(0-2)	Soil	02/26/20 09:50
S12297.23	SB-83/84-47(3-5)	Soil	02/26/20 11:05
S12297.24	SB-81-38(0-2)	Soil	02/26/20 10:30
S12297.25	SB-81-38(3-5)	Soil	02/26/20 10:30
S12297.26	SB-81-37(0-2)	Soil	02/26/20 10:15
S12297.27	SB-81-37(3-5)	Soil	02/26/20 10:15
S12297.28	SB-81-39(0-2)	Soil	02/26/20 09:30
S12297.29	SB-81-40(0-2)	Soil	02/26/20 09:40
S12297.30	SB-81-41(0-2)	Soil	02/26/20 09:45
S12297.31	SB-10-62(1-3)	Soil	02/27/20 14:25
S12297.32	SB-10-62(4-6)	Soil	02/27/20 14:25
S12297.33	SB-10-62(7-9)	Soil	02/27/20 14:25
S12297.34	SB-10-63(1-3)	Soil	02/27/20 14:45
S12297.35	SB-10-63(4-6)	Soil	02/27/20 14:45
S12297.36	SB-10-63(8-10)	Soil	02/27/20 14:45
S12297.37	SB-81-36(0-2)	Soil	02/26/20 10:05
S12297.38	SB-81-36(3-5)	Soil	02/26/20 10:05

Lab Sample ID: S12297.01
Sample Tag: SB-DH-RW-1-29(3-5)
Collected Date/Time: 02/25/2020 09:50
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 19:54, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.02
Sample Tag: SB-DH-RW-1-29(5-7)
Collected Date/Time: 02/25/2020 09:50
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 20:06, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.03
Sample Tag: SB-DH-RW-1-30(3-5)
Collected Date/Time: 02/25/2020 10:10
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 15:10, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	3,000		ug/kg	500	12674-11-2	Y
PCB-1242	28,000	3,000		ug/kg	500	53469-21-9	Y
PCB-1221	Not detected	3,000		ug/kg	500	11104-28-2	Y
PCB-1232	Not detected	3,000		ug/kg	500	11141-16-5	Y
PCB-1248	Not detected	3,000		ug/kg	500	12672-29-6	Y
PCB-1254	Not detected	3,000		ug/kg	500	11097-69-1	Y
PCB-1260	Not detected	3,000		ug/kg	500	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12297.04
Sample Tag: SB-DH-RW-1-30(5-7)
Collected Date/Time: 02/25/2020 10:10
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	94	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 17:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000		ug/kg	400	12674-11-2	Y
PCB-1242	11,000	2,000		ug/kg	400	53469-21-9	Y
PCB-1221	Not detected	2,000		ug/kg	400	11104-28-2	Y
PCB-1232	Not detected	2,000		ug/kg	400	11141-16-5	Y
PCB-1248	Not detected	2,000		ug/kg	400	12672-29-6	Y
PCB-1254	Not detected	2,000		ug/kg	400	11097-69-1	Y
PCB-1260	Not detected	2,000		ug/kg	400	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12297.05
Sample Tag: SB-DH-RW-1-31(12-14)
Collected Date/Time: 02/25/2020 10:40
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	77	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 20:18, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.06
Sample Tag: SB-DH-RW-1-31(15-17)
Collected Date/Time: 02/25/2020 10:40
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 20:30, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.07
Sample Tag: SB-DH-RW-3-58(15-17)
Collected Date/Time: 02/25/2020 11:00
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Lab Sample ID: S12297.08
Sample Tag: SB-DH-RW-3-56(15-17)
Collected Date/Time: 02/25/2020 11:30
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 20:53, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.09
Sample Tag: SB-DH-RW-3-59(15-17)
Collected Date/Time: 02/25/2020 11:45
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Lab Sample ID: S12297.10
Sample Tag: SB-DH-RW-3-60(15-17)
Collected Date/Time: 02/25/2020 13:25
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Lab Sample ID: S12297.11
Sample Tag: SB-DH-RW-3-57(15-17)
Collected Date/Time: 02/25/2020 13:40
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 16:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	5	12674-11-2	
PCB-1242	Not detected	330		ug/kg	5	53469-21-9	
PCB-1221	Not detected	330		ug/kg	5	11104-28-2	
PCB-1232	Not detected	330		ug/kg	5	11141-16-5	
PCB-1248	Not detected	330		ug/kg	5	12672-29-6	
PCB-1254	Not detected	330		ug/kg	5	11097-69-1	
PCB-1260	Not detected	330		ug/kg	5	11096-82-5	

Lab Sample ID: S12297.12
Sample Tag: SB-10-55(6-8)
Collected Date/Time: 02/25/2020 15:15
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 15:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	1,600	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Lab Sample ID: S12297.13
Sample Tag: SB-10-57(6-8)
Collected Date/Time: 02/25/2020 14:55
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 19:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.14
Sample Tag: SB-10-56(6-8)
Collected Date/Time: 02/25/2020 15:05
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:10, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.15
Sample Tag: SB-10-58(6-8)
Collected Date/Time: 02/25/2020 15:25
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.16
Sample Tag: SB-10-59(6-8)
Collected Date/Time: 02/25/2020 15:45
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 16:15, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000		ug/kg	300	12674-11-2	Y
PCB-1242	Not detected	2,000		ug/kg	300	53469-21-9	Y
PCB-1221	Not detected	2,000		ug/kg	300	11104-28-2	Y
PCB-1232	Not detected	2,000		ug/kg	300	11141-16-5	Y
PCB-1248	Not detected	2,000		ug/kg	300	12672-29-6	Y
PCB-1254	8,300	2,000		ug/kg	300	11097-69-1	Y
PCB-1260	Not detected	2,000		ug/kg	300	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12297.17
Sample Tag: SB-10-60(6-8)
Collected Date/Time: 02/25/2020 16:00
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	71	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:34, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.18
Sample Tag: SB-10-61(6-8)
Collected Date/Time: 02/25/2020 16:10
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Lab Sample ID: S12297.19
Sample Tag: SB-81-33B(0-2)
Collected Date/Time: 02/26/2020 09:55
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 16:27, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	100	12672-29-6	Y
PCB-1254	1,600	500		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12297.20
Sample Tag: SB-FEP-12A(0-06)
Collected Date/Time: 02/26/2020 12:55
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/02/20 12:30	CCM	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 03/02/20 15:09, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	140	0.30		mg/kg	227	7439-92-1	

Lab Sample ID: S12297.21
Sample Tag: SB-83/84-46(3-5)
Collected Date/Time: 02/26/2020 11:15
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:46, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.22
Sample Tag: SB-81-42(0-2)
Collected Date/Time: 02/26/2020 09:50
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 03/09/20 17:36, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/06/20 15:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.23
Sample Tag: SB-83/84-47(3-5)
Collected Date/Time: 02/26/2020 11:05
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.24
Sample Tag: SB-81-38(0-2)
Collected Date/Time: 02/26/2020 10:30
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 21:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.25
Sample Tag: SB-81-38(3-5)
Collected Date/Time: 02/26/2020 10:30
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 21:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.26
Sample Tag: SB-81-37(0-2)
Collected Date/Time: 02/26/2020 10:15
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 19:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.27
Sample Tag: SB-81-37(3-5)
Collected Date/Time: 02/26/2020 10:15
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 19:36, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.28
Sample Tag: SB-81-39(0-2)
Collected Date/Time: 02/26/2020 09:30
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 03/09/20 17:36, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/06/20 15:42, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	1,000	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Lab Sample ID: S12297.29
Sample Tag: SB-81-40(0-2)
Collected Date/Time: 02/26/2020 09:40
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 03/09/20 17:36, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/06/20 16:44, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	2,600	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Lab Sample ID: S12297.30
Sample Tag: SB-81-41(0-2)
Collected Date/Time: 02/26/2020 09:45
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 03/09/20 17:36, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/06/20 15:04, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.31
Sample Tag: SB-10-62(1-3)
Collected Date/Time: 02/27/2020 14:25
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 19:48, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	20	12674-11-2	
PCB-1242	Not detected	330		ug/kg	20	53469-21-9	
PCB-1221	Not detected	330		ug/kg	20	11104-28-2	
PCB-1232	Not detected	330		ug/kg	20	11141-16-5	
PCB-1248	600	330		ug/kg	20	12672-29-6	
PCB-1254	Not detected	330		ug/kg	20	11097-69-1	
PCB-1260	Not detected	330		ug/kg	20	11096-82-5	

Lab Sample ID: S12297.32
Sample Tag: SB-10-62(4-6)
Collected Date/Time: 02/27/2020 14:25
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 20:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.33
Sample Tag: SB-10-62(7-9)
Collected Date/Time: 02/27/2020 14:25
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL/CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:51, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.34
Sample Tag: SB-10-63(1-3)
Collected Date/Time: 02/27/2020 14:45
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 20:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.35
Sample Tag: SB-10-63(4-6)
Collected Date/Time: 02/27/2020 14:45
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 21:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.36
Sample Tag: SB-10-63(8-10)
Collected Date/Time: 02/27/2020 14:45
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 21:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.37
Sample Tag: SB-81-36(0-2)
Collected Date/Time: 02/26/2020 10:05
Matrix: Soil
COC Reference: 133442

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 20:24, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.38
Sample Tag: SB-81-36(3-5)
Collected Date/Time: 02/26/2020 10:05
Matrix: Soil
COC Reference: 133442

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	74	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 20:36, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S12297
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: Buick City Drilling / Soil Sampling
Submitted: 02/28/2020 12:45 Login User: MMC

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.3
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

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Phone (517) 332-0167 Fax (517) 332-4034
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C.O.C. PAGE # _____ OF _____

133489

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Erin Kozak, Joey Barker, Mary-Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.:
P.O. NO.: 30043300
E-MAIL ADDRESS: micki.maki@arcadis.com
QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: Buick City Drilling/Soil sampling
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☒ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
12297.01	2/25/20	0950	SB-DH-RW-1-29(3-5)	S	1	X								
.02		0950	SB-DH-RW-1-29(5-7)											
.03		1010	SB-DH-RW-1-30(3-5)											
.04		1010	SB-DH-RW-1-30(5-7)											
.05		1040	SB-DH-RW-1-31(12-14)											
.06		1040	SB-DH-RW-1-31(15-17)											
.07		1100	SB-DH-RW-3-58(15-17)											extract and hold
.08		1130	SB-DH-RW-3-56(15-17)											
.09		1145	SB-DH-RW-3-59(15-17)											extract and hold
.10		1325	SB-DH-RW-3-60(15-17)											extract and hold
.11		1340	SB-DH-RW-3-57(15-17)											
.12		1515	SB-10-55(6-8)											

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature] / Arcadis ☒ Sampler DATE 2/27/20 TIME 1800
RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION M. Humphrey DATE 2-28-20 TIME 1030
RECEIVED BY: SIGNATURE/ORGANIZATION Mag DATE 2-28-20 TIME 1030

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature] DATE 2-28-20 TIME 1245
RECEIVED BY: SIGNATURE/ORGANIZATION [signature] DATE 2/28/2020 TIME 1245

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # _____ OF _____

133486

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Erin Kozak, Joey Parker, Mary Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: P.O. NO.: 30043300
E-MAIL ADDRESS: micki.maki@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: Buick City Drilling/Soil Sampling
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Lead	Special Instructions
12297.13	2/25/20	1455	SB-10-57(6-8)	S	1	X							X		
.14		1505	SB-10-56(6-8)												
.15		1525	SB-10-58(6-8)												
.16		1545	SB-10-59(6-8)												
.17		1600	SB-10-60(6-8)												
.18		1610	SB-10-61(6-8)												extract and hold
.19	2/26/20	0955	SB-81-33B(0-2)												
.20		1255	SB-FEP-12A(0-06)											X	
.21		1115	SB-83/84-46(3-5)										X		
.22		0950	SB-81-42(0-2)												extract and hold
.23		1105	SB-83/84-47(3-5)												
.24		1030	SB-81-38(0-2)												

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Micki Maki/Arcadis ☒ Sampler DATE: 2/27/20 TIME: 1800
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION: M. Humphrey DATE: 2-28-20 TIME: 1630
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: 2-28-20 TIME: 1630

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Mad DATE: 2.28.20 TIME: 1245
RECEIVED BY: SIGNATURE/ORGANIZATION: M Arnold DATE: 2/28/2020 TIME: 1245

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL: 3.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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133441

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Erin Kozak, Joey Barker, Mary-Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr # 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.:
P.O. NO.: 30043300
E-MAIL ADDRESS: micki.maki@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: Buick City Drilling/Soil Sampling
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☒ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
12297.25	2/26/20	1030	SB-81-38(3-5)	S	1	X							X	
.26		1015	SB-81-37(0-2)											
.27		1015	SB-81-37(3-5)											
.28		0930	SB-81-39(0-2)											extract and hold
.29		0940	SB-81-40(0-2)											
.30		0945	SB-81-41(0-2)											
.31	2/27/20	1425	SB-10-62(1-3)											
.32			SB-10-62(4-6)											
.33			SB-10-62(7-9)											
.34		1445	SB-10-63(1-3)											
.35			SB-10-63(4-6)											
.36			SB-10-63(8-10)											

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] / Arcadis ☒ Sampler DATE: 2/27/20 TIME: 1800
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 2.28.2 TIME: 1245
RECEIVED BY: SIGNATURE/ORGANIZATION: M Abbott DATE: 2/28/2020 TIME: 1245

RELINQUISHED BY: SIGNATURE/ORGANIZATION: M-Humphrey DATE: 2.28.20 TIME: 1030
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 2.28.20 TIME: 1030

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # _____ OF _____

133442

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Erin Kozak, Joey Parker, Mary Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 734-732-3671 | FAX NO.: | P.O. NO.:
E-MAIL ADDRESS: micki.maki@arcadis-com | QUOTE NO.:

INVOICE TO

CONTACT NAME | ☐ SAME
COMPANY
ADDRESS
CITY | STATE | ZIP CODE
PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME: Buick City Drilling / Soil Sampling | SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Dender / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☒ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBS
12297.37	2/26/20	1005	SB-81-36(0-2)	S	1	X							X
.38	1	1	SB-81-36(3-5)	1	1	1							1

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature] Arcadis ☒ Sampler | DATE 2/27/20 | TIME 1800
RECEIVED BY: SIGNATURE/ORGANIZATION | DATE | TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature] | DATE 2-28-20 | TIME 1245
RECEIVED BY: SIGNATURE/ORGANIZATION M Arcadis | DATE 2/28/2020 | TIME 1245

RELINQUISHED BY: SIGNATURE/ORGANIZATION M. Humphrey | DATE 2-28-20 | TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION [signature] | DATE 2-28-20 | TIME 1630

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: | TEMP. ON ARRIVAL 3.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Supplemental Report

Report ID: S12297.01(02)
Generated on 03/10/2020

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Megan Humphrey, Kristen VanDenBerge, Micki Maki, Joey Barker, Mary-Catherine Goddard

Report Summary

Lab Sample ID(s): S12297.01-S12297.38
Project: Buick City Drilling / Soil Sampling
Collected Date(s): 02/25/2020 - 02/27/2020
Submitted Date/Time: 02/28/2020 12:45
Sampled by: Madison Olender
P.O. #: 30043300

Table of Contents

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General Report Notes (Page 2)
Report Narrative (Page 2)
Laboratory Certifications (Page 3)
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Glossary of Abbreviations (Page 3)
Method Summary (Page 4)
Sample Summary (Page 5)

Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

PCBs added to samples .22, and .28-.30 per client request.

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (38 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S12297.01	SB-DH-RW-1-29(3-5)	Soil	02/25/20 09:50
S12297.02	SB-DH-RW-1-29(5-7)	Soil	02/25/20 09:50
S12297.03	SB-DH-RW-1-30(3-5)	Soil	02/25/20 10:10
S12297.04	SB-DH-RW-1-30(5-7)	Soil	02/25/20 10:10
S12297.05	SB-DH-RW-1-31(12-14)	Soil	02/25/20 10:40
S12297.06	SB-DH-RW-1-31(15-17)	Soil	02/25/20 10:40
S12297.07	SB-DH-RW-3-58(15-17)	Soil	02/25/20 11:00
S12297.08	SB-DH-RW-3-56(15-17)	Soil	02/25/20 11:30
S12297.09	SB-DH-RW-3-59(15-17)	Soil	02/25/20 11:45
S12297.10	SB-DH-RW-3-60(15-17)	Soil	02/25/20 13:25
S12297.11	SB-DH-RW-3-57(15-17)	Soil	02/25/20 13:40
S12297.12	SB-10-55(6-8)	Soil	02/25/20 15:15
S12297.13	SB-10-57(6-8)	Soil	02/25/20 14:55
S12297.14	SB-10-56(6-8)	Soil	02/25/20 15:05
S12297.15	SB-10-58(6-8)	Soil	02/25/20 15:25
S12297.16	SB-10-59(6-8)	Soil	02/25/20 15:45
S12297.17	SB-10-60(6-8)	Soil	02/25/20 16:00
S12297.18	SB-10-61(6-8)	Soil	02/25/20 16:10
S12297.19	SB-81-33B(0-2)	Soil	02/26/20 09:55
S12297.20	SB-FEP-12A(0-06)	Soil	02/26/20 12:55
S12297.21	SB-83/84-46(3-5)	Soil	02/26/20 11:15
S12297.22	SB-81-42(0-2)	Soil	02/26/20 09:50
S12297.23	SB-83/84-47(3-5)	Soil	02/26/20 11:05
S12297.24	SB-81-38(0-2)	Soil	02/26/20 10:30
S12297.25	SB-81-38(3-5)	Soil	02/26/20 10:30
S12297.26	SB-81-37(0-2)	Soil	02/26/20 10:15
S12297.27	SB-81-37(3-5)	Soil	02/26/20 10:15
S12297.28	SB-81-39(0-2)	Soil	02/26/20 09:30
S12297.29	SB-81-40(0-2)	Soil	02/26/20 09:40
S12297.30	SB-81-41(0-2)	Soil	02/26/20 09:45
S12297.31	SB-10-62(1-3)	Soil	02/27/20 14:25
S12297.32	SB-10-62(4-6)	Soil	02/27/20 14:25
S12297.33	SB-10-62(7-9)	Soil	02/27/20 14:25
S12297.34	SB-10-63(1-3)	Soil	02/27/20 14:45
S12297.35	SB-10-63(4-6)	Soil	02/27/20 14:45
S12297.36	SB-10-63(8-10)	Soil	02/27/20 14:45
S12297.37	SB-81-36(0-2)	Soil	02/26/20 10:05
S12297.38	SB-81-36(3-5)	Soil	02/26/20 10:05

Lab Sample ID: S12297.01
Sample Tag: SB-DH-RW-1-29(3-5)
Collected Date/Time: 02/25/2020 09:50
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 19:54, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.02
Sample Tag: SB-DH-RW-1-29(5-7)
Collected Date/Time: 02/25/2020 09:50
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 20:06, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.03
Sample Tag: SB-DH-RW-1-30(3-5)
Collected Date/Time: 02/25/2020 10:10
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 15:10, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	3,000		ug/kg	500	12674-11-2	Y
PCB-1242	28,000	3,000		ug/kg	500	53469-21-9	Y
PCB-1221	Not detected	3,000		ug/kg	500	11104-28-2	Y
PCB-1232	Not detected	3,000		ug/kg	500	11141-16-5	Y
PCB-1248	Not detected	3,000		ug/kg	500	12672-29-6	Y
PCB-1254	Not detected	3,000		ug/kg	500	11097-69-1	Y
PCB-1260	Not detected	3,000		ug/kg	500	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12297.04
Sample Tag: SB-DH-RW-1-30(5-7)
Collected Date/Time: 02/25/2020 10:10
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	94	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 17:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000		ug/kg	400	12674-11-2	Y
PCB-1242	11,000	2,000		ug/kg	400	53469-21-9	Y
PCB-1221	Not detected	2,000		ug/kg	400	11104-28-2	Y
PCB-1232	Not detected	2,000		ug/kg	400	11141-16-5	Y
PCB-1248	Not detected	2,000		ug/kg	400	12672-29-6	Y
PCB-1254	Not detected	2,000		ug/kg	400	11097-69-1	Y
PCB-1260	Not detected	2,000		ug/kg	400	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12297.05
Sample Tag: SB-DH-RW-1-31(12-14)
Collected Date/Time: 02/25/2020 10:40
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	77	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 20:18, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.06
Sample Tag: SB-DH-RW-1-31(15-17)
Collected Date/Time: 02/25/2020 10:40
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 20:30, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.07
Sample Tag: SB-DH-RW-3-58(15-17)
Collected Date/Time: 02/25/2020 11:00
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Lab Sample ID: S12297.08
Sample Tag: SB-DH-RW-3-56(15-17)
Collected Date/Time: 02/25/2020 11:30
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/02/20 20:53, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.09
Sample Tag: SB-DH-RW-3-59(15-17)
Collected Date/Time: 02/25/2020 11:45
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Lab Sample ID: S12297.10
Sample Tag: SB-DH-RW-3-60(15-17)
Collected Date/Time: 02/25/2020 13:25
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Lab Sample ID: S12297.11
Sample Tag: SB-DH-RW-3-57(15-17)
Collected Date/Time: 02/25/2020 13:40
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 15:00	CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 16:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	5	12674-11-2	
PCB-1242	Not detected	330		ug/kg	5	53469-21-9	
PCB-1221	Not detected	330		ug/kg	5	11104-28-2	
PCB-1232	Not detected	330		ug/kg	5	11141-16-5	
PCB-1248	Not detected	330		ug/kg	5	12672-29-6	
PCB-1254	Not detected	330		ug/kg	5	11097-69-1	
PCB-1260	Not detected	330		ug/kg	5	11096-82-5	

Lab Sample ID: S12297.12
Sample Tag: SB-10-55(6-8)
Collected Date/Time: 02/25/2020 15:15
Matrix: Soil
COC Reference: 133489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 15:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	1,600	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Lab Sample ID: S12297.13
Sample Tag: SB-10-57(6-8)
Collected Date/Time: 02/25/2020 14:55
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 19:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.14
Sample Tag: SB-10-56(6-8)
Collected Date/Time: 02/25/2020 15:05
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:10, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.15
Sample Tag: SB-10-58(6-8)
Collected Date/Time: 02/25/2020 15:25
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.16
Sample Tag: SB-10-59(6-8)
Collected Date/Time: 02/25/2020 15:45
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 16:15, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000		ug/kg	300	12674-11-2	Y
PCB-1242	Not detected	2,000		ug/kg	300	53469-21-9	Y
PCB-1221	Not detected	2,000		ug/kg	300	11104-28-2	Y
PCB-1232	Not detected	2,000		ug/kg	300	11141-16-5	Y
PCB-1248	Not detected	2,000		ug/kg	300	12672-29-6	Y
PCB-1254	8,300	2,000		ug/kg	300	11097-69-1	Y
PCB-1260	Not detected	2,000		ug/kg	300	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12297.17
Sample Tag: SB-10-60(6-8)
Collected Date/Time: 02/25/2020 16:00
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	71	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:34, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.18
Sample Tag: SB-10-61(6-8)
Collected Date/Time: 02/25/2020 16:10
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Lab Sample ID: S12297.19
Sample Tag: SB-81-33B(0-2)
Collected Date/Time: 02/26/2020 09:55
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 16:27, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	100	12672-29-6	Y
PCB-1254	1,600	500		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12297.20
Sample Tag: SB-FEP-12A(0-06)
Collected Date/Time: 02/26/2020 12:55
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/02/20 12:30	CCM	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 03/02/20 15:09, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	140	0.30		mg/kg	227	7439-92-1	

Lab Sample ID: S12297.21
Sample Tag: SB-83/84-46(3-5)
Collected Date/Time: 02/26/2020 11:15
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:46, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.22
Sample Tag: SB-81-42(0-2)
Collected Date/Time: 02/26/2020 09:50
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 03/09/20 17:36, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/06/20 15:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.23
Sample Tag: SB-83/84-47(3-5)
Collected Date/Time: 02/26/2020 11:05
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.24
Sample Tag: SB-81-38(0-2)
Collected Date/Time: 02/26/2020 10:30
Matrix: Soil
COC Reference: 133486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 21:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.25
Sample Tag: SB-81-38(3-5)
Collected Date/Time: 02/26/2020 10:30
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 21:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.26
Sample Tag: SB-81-37(0-2)
Collected Date/Time: 02/26/2020 10:15
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 19:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.27
Sample Tag: SB-81-37(3-5)
Collected Date/Time: 02/26/2020 10:15
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 19:36, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.28
Sample Tag: SB-81-39(0-2)
Collected Date/Time: 02/26/2020 09:30
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 03/09/20 17:36, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/06/20 15:42, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	1,000	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Lab Sample ID: S12297.29
Sample Tag: SB-81-40(0-2)
Collected Date/Time: 02/26/2020 09:40
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 03/09/20 17:36, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/06/20 16:44, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	2,600	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Lab Sample ID: S12297.30
Sample Tag: SB-81-41(0-2)
Collected Date/Time: 02/26/2020 09:45
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 03/09/20 17:36, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/06/20 15:04, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.31
Sample Tag: SB-10-62(1-3)
Collected Date/Time: 02/27/2020 14:25
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 19:48, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	20	12674-11-2	
PCB-1242	Not detected	330		ug/kg	20	53469-21-9	
PCB-1221	Not detected	330		ug/kg	20	11104-28-2	
PCB-1232	Not detected	330		ug/kg	20	11141-16-5	
PCB-1248	600	330		ug/kg	20	12672-29-6	
PCB-1254	Not detected	330		ug/kg	20	11097-69-1	
PCB-1260	Not detected	330		ug/kg	20	11096-82-5	

Lab Sample ID: S12297.32
Sample Tag: SB-10-62(4-6)
Collected Date/Time: 02/27/2020 14:25
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	02/28/20 16:30	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 20:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.33
Sample Tag: SB-10-62(7-9)
Collected Date/Time: 02/27/2020 14:25
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL/CP	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 20:51, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.34
Sample Tag: SB-10-63(1-3)
Collected Date/Time: 02/27/2020 14:45
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 20:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.35
Sample Tag: SB-10-63(4-6)
Collected Date/Time: 02/27/2020 14:45
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 21:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.36
Sample Tag: SB-10-63(8-10)
Collected Date/Time: 02/27/2020 14:45
Matrix: Soil
COC Reference: 133441

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/03/20 21:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12297.37
Sample Tag: SB-81-36(0-2)
Collected Date/Time: 02/26/2020 10:05
Matrix: Soil
COC Reference: 133442

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 20:24, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12297.38
Sample Tag: SB-81-36(3-5)
Collected Date/Time: 02/26/2020 10:05
Matrix: Soil
COC Reference: 133442

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/02/20 14:00	JL	

Inorganics

Method: SM2540B, Run Date: 02/28/20 07:15, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	74	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/04/20 20:36, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S12297
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: Buick City Drilling / Soil Sampling
Submitted: 02/28/2020 12:45 Login User: MMC

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.3
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
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Phone (517) 332-0167 Fax (517) 332-4034
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C.O.C. PAGE # _____ OF _____

133489

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Erin Kozak, Joey Barker, Mary-Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.:
P.O. NO.: 30043300
E-MAIL ADDRESS: micki.maki@arcadis.com
QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: Buick City Drilling/Soil sampling
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☒ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
12297.01	2/25/20	0950	SB-DH-RW-1-29(3-5)	S	1	X								
.02		0950	SB-DH-RW-1-29(5-7)											
.03		1010	SB-DH-RW-1-30(3-5)											
.04		1010	SB-DH-RW-1-30(5-7)											
.05		1040	SB-DH-RW-1-31(12-14)											
.06		1040	SB-DH-RW-1-31(15-17)											
.07		1100	SB-DH-RW-3-58(15-17)											extract and hold
.08		1130	SB-DH-RW-3-56(15-17)											
.09		1145	SB-DH-RW-3-59(15-17)											extract and hold
.10		1325	SB-DH-RW-3-60(15-17)											extract and hold
.11		1340	SB-DH-RW-3-57(15-17)											
.12		1515	SB-10-55(6-8)											

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature] / Arcadis ☒ Sampler DATE 2/27/20 TIME 1800
RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION M. Humphrey DATE 2-28-20 TIME 1030
RECEIVED BY: SIGNATURE/ORGANIZATION Mag DATE 2-28-20 TIME 1030

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature] DATE 2-28-20 TIME 1245
RECEIVED BY: SIGNATURE/ORGANIZATION [signature] DATE 2/28/2020 TIME 1245

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # _____ OF _____

133486

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Erin Kozak, Joey Parker, Mary Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.: P.O. NO.: 30043300
E-MAIL ADDRESS: micki.maki@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: Buick City Drilling/Soil Sampling
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Lead	Special Instructions
12297.13	2/25/20	1455	SB-10-57(6-8)	S	1	X							X		
.14		1505	SB-10-56(6-8)												
.15		1525	SB-10-58(6-8)												
.16		1545	SB-10-59(6-8)												
.17		1600	SB-10-60(6-8)												
.18		1610	SB-10-61(6-8)												extract and hold
.19	2/26/20	0955	SB-81-33B(0-2)												
.20		1255	SB-FEP-12A(0-06)											X	
.21		1115	SB-83/84-46(3-5)										X		
.22		0950	SB-81-42(0-2)												extract and hold
.23		1105	SB-83/84-47(3-5)												
.24		1030	SB-81-38(0-2)												

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Micki Maki/Arcadis ☒ Sampler DATE: 2/27/20 TIME: 1800
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION: M. Humphrey DATE: 2-28-20 TIME: 1630
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: 2-28-20 TIME: 1630

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Mad DATE: 2.28.20 TIME: 1245
RECEIVED BY: SIGNATURE/ORGANIZATION: M Arnold DATE: 2/28/2020 TIME: 1245

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL: 3.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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133441

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Erin Kozak, Joey Barker, Mary-Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr # 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 734-732-3671 FAX NO.:
P.O. NO.: 30043300
E-MAIL ADDRESS: micki.maki@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: Buick City Drilling/Soil Sampling
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☒ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Special Instructions
12297.25	2/26/20	1030	SB-81-38(3-5)	S	1	X							X	
.26		1015	SB-81-37(0-2)											
.27		1015	SB-81-37(3-5)											
.28		0930	SB-81-39(0-2)											extract and hold
.29		0940	SB-81-40(0-2)											
.30		0945	SB-81-41(0-2)											
.31	2/27/20	1425	SB-10-62(1-3)											
.32			SB-10-62(4-6)											
.33			SB-10-62(7-9)											
.34		1445	SB-10-63(1-3)											
.35			SB-10-63(4-6)											
.36			SB-10-63(8-10)											

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] / Arcadis ☒ Sampler DATE: 2/27/20 TIME: 1800
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 2.28.2 TIME: 1245
RECEIVED BY: SIGNATURE/ORGANIZATION: M Abbott DATE: 2/28/2020 TIME: 1245

RELINQUISHED BY: SIGNATURE/ORGANIZATION: M-Humphrey DATE: 2.28.20 TIME: 1030
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 2.28.20 TIME: 1030

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.3

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C.O.C. PAGE # _____ OF _____

133442

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Megan Humphrey, Erin Kozak, Joey Parker, Mary Catherine Goddard
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 734-732-3671 | FAX NO.: | P.O. NO.:
E-MAIL ADDRESS: micki.maki@arcadis-com | QUOTE NO.:

INVOICE TO

CONTACT NAME | ☐ SAME
COMPANY
ADDRESS
CITY | STATE | ZIP CODE
PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME: Buick City Drilling / Soil Sampling | SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Dender / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☒ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBS
12297.37	2/26/20	1005	SB-81-36(0-2)	S	1	X							X
.38	1	1	SB-81-36(3-5)	1	1	1							1

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature] Arcadis ☒ Sampler | DATE 2/27/20 | TIME 1800
RECEIVED BY: SIGNATURE/ORGANIZATION | DATE | TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature] | DATE 2-28-20 | TIME 1245
RECEIVED BY: SIGNATURE/ORGANIZATION M Arcadis | DATE 2/28/2020 | TIME 1245

RELINQUISHED BY: SIGNATURE/ORGANIZATION M. Humphrey | DATE 2-28-20 | TIME 1630
RECEIVED BY: SIGNATURE/ORGANIZATION [signature] | DATE 2-28-20 | TIME 1630

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: | TEMP. ON ARRIVAL 3.3

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Rev. 5.18.12

Analytical Laboratory Report

Report ID: S12906.01(01)
Generated on 03/30/2020

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Addtional Contacts: Megan Humphrey, Micki Maki, Joey Barker, Mary-Catherine Goddard

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S12906.01-S12906.24
Project: Buick City - 30043300.01904
Collected Date(s): 03/19/2020 - 03/20/2020
Submitted Date/Time: 03/23/2020 13:00
Sampled by: Christina Weaver
P.O. #: 30043300

Table of Contents

Cover Page (Page 1)
General Report Notes (Page 2)
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Sample Summary (Page 5)



Maya Murshak
Technical Director

Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (24 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S12906.01	SB-OH-RW-1-37(6-8)_03192020	Soil	03/19/20 11:05
S12906.02	SB-OH-RW-1-37(8-10)_03192020	Soil	03/19/20 11:07
S12906.03	SB-OH-RW-1-37(10-12)_03192020	Soil	03/19/20 11:16
S12906.04	SB-OH-RW-1-38(6-8)_03192020	Soil	03/19/20 12:25
S12906.05	SB-OH-RW-1-38(8-10)_03192020	Soil	03/19/20 12:30
S12906.06	SB-OH-RW-1-38(10-12)_03192020	Soil	03/19/20 12:34
S12906.07	SB-OH-RW-1-34(6-8)_03192020	Soil	03/19/20 14:00
S12906.08	SB-OH-RW-1-35(3-5)_03202020	Soil	03/20/20 09:30
S12906.09	SB-OH-RW-1-35(5-7)_03202020	Soil	03/20/20 09:32
S12906.10	SB-OH-RW-1-35(7-9)_03202020	Soil	03/20/20 09:35
S12906.11	SB-OH-RW-1-32(3-5)_03202020	Soil	03/20/20 10:50
S12906.12	SB-OH-RW-1-32(3-5)_03202020 MS	Soil	03/20/20 10:50
S12906.13	SB-OH-RW-1-32(3-5)_03202020 MSD	Soil	03/20/20 10:50
S12906.14	SB-OH-RW-1-32(5-7)_03202020	Soil	03/20/20 11:20
S12906.15	SB-OH-RW-1-32(7-9)_03202020	Soil	03/20/20 11:21
S12906.16	SB-OH-RW-1-33(3-5)_03202020	Soil	03/20/20 11:59
S12906.17	SB-OH-RW-1-33(5-7)_03202020	Soil	03/20/20 12:10
S12906.18	SB-OH-RW-1-33(7-9)_03202020	Soil	03/20/20 12:12
S12906.19	SB-OH-RW-1-36(3-5)_03202020	Soil	03/20/20 12:40
S12906.20	SB-OH-RW-1-36(5-7)_03202020	Soil	03/20/20 12:50
S12906.21	SB-OH-RW-1-36(7-9)_03202020	Soil	03/20/20 12:55
S12906.22	SB-10-68(4-6)_03202020	Soil	03/20/20 16:28
S12906.23	SB-10-68(6-8)_03202020	Soil	03/20/20 16:45
S12906.24	SB-10-68(8-10)_03202020	Soil	03/20/20 16:50

Analytical Laboratory Report

Lab Sample ID: S12906.01
Sample Tag: SB-OH-RW-1-37(6-8)_03192020
Collected Date/Time: 03/19/2020 11:05
Matrix: Soil
COC Reference: 133804

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/24/20 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Lab Sample ID: S12906.02

Sample Tag: SB-OH-RW-1-37(8-10)_03192020

Collected Date/Time: 03/19/2020 11:07

Matrix: Soil

COC Reference: 133804

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/24/20 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Lab Sample ID: S12906.03
Sample Tag: SB-OH-RW-1-37(10-12)_03192020
Collected Date/Time: 03/19/2020 11:16
Matrix: Soil
COC Reference: 133804

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/24/20 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1		%	1		

Lab Sample ID: S12906.04
Sample Tag: SB-OH-RW-1-38(6-8)_03192020
Collected Date/Time: 03/19/2020 12:25
Matrix: Soil
COC Reference: 133804

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/24/20 12:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Lab Sample ID: S12906.05

Sample Tag: SB-OH-RW-1-38(8-10)_03192020

Collected Date/Time: 03/19/2020 12:30

Matrix: Soil

COC Reference: 133804

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/26/20 14:00	DB/CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Analytical Laboratory Report

Lab Sample ID: S12906.06
Sample Tag: SB-OH-RW-1-38(10-12)_03192020
Collected Date/Time: 03/19/2020 12:34
Matrix: Soil
COC Reference: 133804

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/26/20 14:00	DB/CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Analytical Laboratory Report

Lab Sample ID: S12906.07
Sample Tag: SB-OH-RW-1-34(6-8)_03192020
Collected Date/Time: 03/19/2020 14:00
Matrix: Soil
COC Reference: 133804

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/26/20 14:00	DB/CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/27/20 20:20, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	1,200	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S12906.08
Sample Tag: SB-OH-RW-1-35(3-5)_03202020
Collected Date/Time: 03/20/2020 09:30
Matrix: Soil
COC Reference: 133805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/26/20 14:00	DB/CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Lab Sample ID: S12906.09
Sample Tag: SB-OH-RW-1-35(5-7)_03202020
Collected Date/Time: 03/20/2020 09:32
Matrix: Soil
COC Reference: 133805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/26/20 14:00	DB/CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Lab Sample ID: S12906.10

Sample Tag: SB-OH-RW-1-35(7-9)_03202020

Collected Date/Time: 03/20/2020 09:35

Matrix: Soil

COC Reference: 133805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/26/20 14:00	DB/CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Analytical Laboratory Report

Lab Sample ID: S12906.11
Sample Tag: SB-OH-RW-1-32(3-5)_03202020
Collected Date/Time: 03/20/2020 10:50
Matrix: Soil
COC Reference: 133805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/26/20 14:00	DB/CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/27/20 17:32, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12906.12
Sample Tag: SB-OH-RW-1-32(3-5)_03202020 MS
Collected Date/Time: 03/20/2020 10:50
Matrix: Soil
COC Reference: 133805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/26/20 14:00	DB/CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/27/20 17:43, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12906.13
Sample Tag: SB-OH-RW-1-32(3-5)_03202020 MSD
Collected Date/Time: 03/20/2020 10:50
Matrix: Soil
COC Reference: 133805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/26/20 14:00	DB/CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/27/20 17:54, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	20	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	30	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12906.14
Sample Tag: SB-OH-RW-1-32(5-7)_03202020
Collected Date/Time: 03/20/2020 11:20
Matrix: Soil
COC Reference: 133805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/26/20 14:00	DB/CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/27/20 19:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12906.15
Sample Tag: SB-OH-RW-1-32(7-9)_03202020
Collected Date/Time: 03/20/2020 11:21
Matrix: Soil
COC Reference: 133805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/26/20 14:00	DB/CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/27/20 20:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12906.16
Sample Tag: SB-OH-RW-1-33(3-5)_03202020
Collected Date/Time: 03/20/2020 11:59
Matrix: Soil
COC Reference: 133805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/26/20 14:00	DB/CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/27/20 20:31, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	20	12674-11-2	
PCB-1242	800	330		ug/kg	20	53469-21-9	
PCB-1221	Not detected	330		ug/kg	20	11104-28-2	
PCB-1232	Not detected	330		ug/kg	20	11141-16-5	
PCB-1248	Not detected	330		ug/kg	20	12672-29-6	
PCB-1254	Not detected	330		ug/kg	20	11097-69-1	
PCB-1260	Not detected	330		ug/kg	20	11096-82-5	

Lab Sample ID: S12906.17
Sample Tag: SB-OH-RW-1-33(5-7)_03202020
Collected Date/Time: 03/20/2020 12:10
Matrix: Soil
COC Reference: 133805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 16:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y
PCB-1242	4,600	1,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S12906.18
Sample Tag: SB-OH-RW-1-33(7-9)_03202020
Collected Date/Time: 03/20/2020 12:12
Matrix: Soil
COC Reference: 133805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 17:08, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000		ug/kg	300	12674-11-2	Y
PCB-1242	8,600	2,000		ug/kg	300	53469-21-9	Y
PCB-1221	Not detected	2,000		ug/kg	300	11104-28-2	Y
PCB-1232	Not detected	2,000		ug/kg	300	11141-16-5	Y
PCB-1248	Not detected	2,000		ug/kg	300	12672-29-6	Y
PCB-1254	Not detected	2,000		ug/kg	300	11097-69-1	Y
PCB-1260	Not detected	2,000		ug/kg	300	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12906.19
Sample Tag: SB-OH-RW-1-36(3-5)_03202020
Collected Date/Time: 03/20/2020 12:40
Matrix: Soil
COC Reference: 133805

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Lab Sample ID: S12906.20
Sample Tag: SB-OH-RW-1-36(5-7)_03202020
Collected Date/Time: 03/20/2020 12:50
Matrix: Soil
COC Reference: 133806

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Lab Sample ID: S12906.21
Sample Tag: SB-OH-RW-1-36(7-9)_03202020
Collected Date/Time: 03/20/2020 12:55
Matrix: Soil
COC Reference: 133806

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Lab Sample ID: S12906.22
Sample Tag: SB-10-68(4-6)_03202020
Collected Date/Time: 03/20/2020 16:28
Matrix: Soil
COC Reference: 133806

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Lab Sample ID: S12906.23
Sample Tag: SB-10-68(6-8)_03202020
Collected Date/Time: 03/20/2020 16:45
Matrix: Soil
COC Reference: 133806

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 15:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Lab Sample ID: S12906.24
Sample Tag: SB-10-68(8-10)_03202020
Collected Date/Time: 03/20/2020 16:50
Matrix: Soil
COC Reference: 133806

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/24/20 16:04, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Merit Laboratories Login Checklist

Lab Set ID: S12906
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: Buick City - 30043300.01904
Submitted: 03/23/2020 13:00 Login User: BJB

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 5.6
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

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C.O.C. PAGE # 1 OF 3

133804

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MARY-CATHERINE GODDARD, MEGAN HUMPHREY, JOEY BAKER, ERIN KOZAK
COMPANY: ARCADIS
ADDRESS: 28550 CABOT DRIVE #500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: — FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM, JOEY.BAKER@ARCADIS.COM, ERIN.KOZAK@ARCADIS.COM, MEGAN.HUMPHERY@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: BUICK CITY ~ 30043300.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CHRISTINA WEAVER
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☑ OTHER 3-DAY ON METALS
DELIVERABLES REQUIRED ☐ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	METALS-MI 10	PCBs	TCLP-METALS	SPLP-METALS	Special Instructions
12905.01	3/19/20	0931	RFI-05-18R(10-12)_03192020	S	1	X							X		X	X	
12906.01	3/19/20	1105	SB-OH-RW-1-37(6-8)_03192020	S	1	X								X			EXTRACT & HOLD
.02	3/19/20	1107	SB-OH-RW-1-37(8-10)_03192020	S	1	X								X			EXTRACT & HOLD
.03	3/19/20	1116	SB-OH-RW-1-37(10-12)_03192020	S	1	X								X			EXTRACT & HOLD
.04	3/19/20	1225	SB-OH-RW-1-38(6-8)_03192020	S	1	X								X			EXTRACT & HOLD
.05	3/19/20	1230	SB-OH-RW-1-38(8-10)_03192020	S	1	X								X			EXTRACT & HOLD
.06	3/19/20	1234	SB-OH-RW-1-38(10-12)_03192020	S	1	X								X			EXTRACT & HOLD
.07	3/19/20	1400	SB-OH-RW-1-34(6-8)_03192020	S	1	X								X			
12905.02	3/19/20	1535	~~SB-OH~~ SB-05-22R(2-4)_03192020	S	1	X							X		X	X	
.03	3/19/20	1620	RFI-05-21R(0-2)_03192020	S	1	X							X		X	X	
.04	3/19/20	1700	SB-05-16R(2-4)_03192020	S	1	X							X		X	X	
.05	3/19/20	1745	SB-05-18R(2-4)_03192020	S	1	X							X		X	X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Christina Weaver ☑ Sampler DATE: 3/20/20 TIME: 1800
RECEIVED BY: SIGNATURE/ORGANIZATION: NOVI COLD STORAGE DATE: 3/20/20 TIME: 1800
RELINQUISHED BY: SIGNATURE/ORGANIZATION: Mueller / Arcadis DATE: 3/23/20 TIME: 1300
RECEIVED BY: SIGNATURE/ORGANIZATION: Merit Lab Lockers DATE: 3/23/20 TIME: 1300

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Novi Cold Storage DATE: 3/23/20 TIME: 1115
RECEIVED BY: SIGNATURE/ORGANIZATION: Mueller / Arcadis DATE: 3/23/20 TIME: 1115

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 5.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Barbe Ball 3/23/2020 1300

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C.O.C. PAGE # 2 OF 3

133805

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, MARY-CATHERINE GODDARD, MEGAN HUMPHERY, JOEY BARKER, ERIN KOZAK
COMPANY: ARCADIS
ADDRESS: 28550 CABOT DRIVE #500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: — FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM, JOEY.BARKER@ARCADIS.COM, ERIN.KOZAK@ARCADIS.COM, MEGAN.HUMPHERY@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: QUICK CITY - 30043300.019004
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CHRISTINA WEAVER / Christina Weaver
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☑ OTHER 3-DAY ON METALS
DELIVERABLES REQUIRED ☐ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	METALS - NJ 10	PCBs	TCLP-METALS	SPLP-METALS	Special Instructions
12905.06	3/19/20	—	DUP-01	S	1	X							X		X	X	DUPLICATE
.07	3/20/20	—	DUP-03	S	1	X							X		X	X	DUPLICATE
12906.08	3/20/20	0930	SB-DH-RW-1-35(3-5)_03202020	S	1	X								X			EXTRACT & HOLD
.09	3/20/20	0932	SB-DH-RW-1-35(5-7)_03202020	S	1	X								X			EXTRACT & HOLD
.10	3/20/20	0935	SB-DH-RW-1-35(7-9)_03202020	S	1	X								X			EXTRACT & HOLD
.11/.12/.13	3/20/20	1050	SB-DH-RW-1-32(3-5)_03202020	S	3	X								X			"MS/MSD"
.12	3/20/20	1120	SB-DH-RW-1-32(5-7)_03202020	S	1	X								X			
.13	3/20/20	1121	SB-DH-RW-1-32(7-9)_03202020	S	1	X								X			
.16/.14	3/20/20	1159	SB-DH-RW-1-33(3-5)_03202020	S	1	X								X			
.17/.15	3/20/20	1210	SB-DH-RW-1-33(5-7)_03202020	S	1	X								X			
.18	3/20/20	1212	SB-DH-RW-1-33(7-9)_03202020	S	1	X								X			
.19	3/20/20	1240	SB-DH-RW-1-36(3-5)_03202020	S	1	X								X			EXTRACT & HOLD

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☑ Sampler CHRISTINA WEAVER / ARCADIS	DATE 3/20/20	TIME 1800
RECEIVED BY: SIGNATURE/ORGANIZATION	NOVI COLD STORAGE.	DATE 3/20/20	TIME 1800
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Arcadis	DATE 3/23/20	TIME 800/1300
RECEIVED BY: SIGNATURE/ORGANIZATION	Merit Lab Lockers	DATE 3/23/20	TIME 1300
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage	DATE 3/23/20	TIME 1115
RECEIVED BY: SIGNATURE/ORGANIZATION	Arcadis	DATE 3/23/20	TIME 1115

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 5.6

Barbara Bull 3/23/2020 1300

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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133806

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MACKI, MARY-CATHERINE GOCCARD, MEGAN HUMPHERY, JOEY BARKER, ERIN KOZAK
COMPANY: ARCADIS
ADDRESS: 28550 CABOT DRIVE # 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: — FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MACKI@ARCADIS.COM, JOEY.BARKER@ARCADIS.COM, ERIN.KOZAK@ARCADIS.COM, MEGAN.HUMPHERY@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: BUICK CITY - 30043300.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CHRISTINA WEAVER / Christina Weaver

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☑ OTHER 3 DAY ON METALS

DELIVERABLES REQUIRED ☐ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☐ Other

MERIT LAB NO. (FOR LAB USE)	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	METALS-MI 10	PCBs	TCLP-METALS	SPLP-METALS	Special Instructions
12906.18	3/20/20	1250	SB-DH-RW-1-36(5-7)_03202020	S	1	X								X			EXTRACT & HOLD
.19	3/20/20	1255	SB-DH-RW-1-36(7-9)_03202020	S	1	X								X			EXTRACT & HOLD
12905.08	3/20/20	1420	SB-10-77(1-3)_03202020	S	1	X							X		X	X	HOLD ON TCLP/SPLP
.09	3/20/20	1422	SB-10-77(3-5)_03202020	S	1	X							X		X	X	HOLD ON TCLP/SPLP
	~~1455~~		~~SB-10-28R(3-5)_~~ EW														
12905.10	3/20/20	1455	SB-10-28R(1-3)_03202020	S	1	X							X		X	X	HOLD ON TCLP/SPLP
.11	3/20/20	1500	SB-10-28R(3-5)_03202020	S	1	X							X		X	X	HOLD ON TCLP/SPLP
12906.22	3/20/20	1628	SB-10-68(4-6)_03202020	S	1	X								X			EXTRACT & HOLD
.23	3/20/20	1695	SB-10-68(6-8)_03202020	S	1	X								X			EXTRACT & HOLD
.24	3/20/20	1650	SB-10-68(8-10)_03202020	S	1	X								X			EXTRACT & HOLD

RELINQUISHED BY: SIGNATURE/ORGANIZATION: CHRISTINA WEAVER / Christina Weaver ☑ Sampler	DATE: 3/20/20	TIME: 1800	
RECEIVED BY: SIGNATURE/ORGANIZATION: NOVI COLD STORAGE.	DATE: 3/20/20	TIME: 1800	
RELINQUISHED BY: SIGNATURE/ORGANIZATION: Arcadis	DATE: 3/23/30	TIME: 1300	
RECEIVED BY: SIGNATURE/ORGANIZATION: Merit Lab Lockers / Barbara Bull	DATE: 3/23/20	TIME: 1300	

RELINQUISHED BY: SIGNATURE/ORGANIZATION: NOVI Cold Storage	DATE: 3/23/20	TIME: 1115	
RECEIVED BY: SIGNATURE/ORGANIZATION: Arcadis	DATE: 3/23/20	TIME: 1115	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL: 5.6
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE 3/23/2020 1300

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S12942.01(01)
Generated on 04/02/2020

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Addtional Contacts: Megan Humphrey, Micki Maki, Joey Barker, Mary-Catherine Goddard

Report produced by

Merit Laboratories, Inc.
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East Lansing, MI 48823

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Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S12942.01-S12942.41
Project: Buick City - 30043300.01904
Collected Date(s): 03/23/2020
Submitted Date/Time: 03/24/2020 13:00
Sampled by: Christina Weaver
P.O. #: 30043300

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Sample Summary (Page 5)



Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (41 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S12942.01	SB-10-64(4-6)_03232020	Soil	03/23/20 09:30
S12942.02	SB-10-64(6-8)_03232020	Soil	03/23/20 09:32
S12942.03	SB-10-64(8-10)_03232020	Soil	03/23/20 09:35
S12942.04	SB-10-65(6-8)_03232020	Soil	03/23/20 09:56
S12942.05	SB-10-65(4-6)_03232020	Soil	03/23/20 09:57
S12942.06	SB-10-65(8-10)_03232020	Soil	03/23/20 09:58
S12942.07	SB-10-69(4-6)_03232020	Soil	03/23/20 10:30
S12942.08	SB-10-69(6-8)_03232020	Soil	03/23/20 10:32
S12942.09	SB-10-69(8-10)_03232020	Soil	03/23/20 10:34
S12942.10	SB-10-70(4-6)_03232020	Soil	03/23/20 11:30
S12942.11	SB-10-70(6-8)_03232020	Soil	03/23/20 11:32
S12942.12	SB-10-70(8-10)_03232020	Soil	03/23/20 11:35
S12942.13	SB-DH-RW-1-34(6-8)_03232020	Soil	03/23/20 12:30
S12942.14	SB-DH-RW-1-34(8-10)_03232020	Soil	03/23/20 12:32
S12942.15	SB-DH-RW-1-34(10-12)_03232020	Soil	03/23/20 12:35
S12942.16	SB-81-47(0-2)_03232020	Soil	03/23/20 14:50
S12942.17	SB-81-47(2-4)_03232020	Soil	03/23/20 14:52
S12942.18	SB-81-43(0-2)_03232020	Soil	03/23/20 15:00
S12942.19	SB-81-43(2-4)_03232020	Soil	03/23/20 15:02
S12942.20	SB-81-43(2-4)_03232020 MS	Soil	03/23/20 15:02
S12942.21	SB-81-43(2-4)_03232020 MSD	Soil	03/23/20 15:02
S12942.22	SB-81-48(0-2)_03232020	Soil	03/23/20 15:10
S12942.23	SB-81-48(2-4)_03232020	Soil	03/23/20 15:11
S12942.24	SB-81-48(2-4)_03232020 MS	Soil	03/23/20 15:11
S12942.25	SB-81-48(2-4)_03232020 MSD	Soil	03/23/20 15:11
S12942.26	SB-81-49(0-2)_03232020	Soil	03/23/20 15:30
S12942.27	SB-81-49(2-4)_03232020	Soil	03/23/20 15:32
S12942.28	SB-81-49(2-4)_03232020 MS	Soil	03/23/20 15:32
S12942.29	SB-81-49(2-4)_03232020 MSD	Soil	03/23/20 15:32
S12942.30	SB-81-44(0-2)_03232020	Soil	03/23/20 15:50
S12942.31	SB-81-44(2-4)_03232020	Soil	03/23/20 15:52
S12942.32	SB-81-44(2-4)_03232020 MS	Soil	03/23/20 15:52
S12942.33	SB-81-44(2-4)_03232020 MSD	Soil	03/23/20 15:52
S12942.34	DUP-04	Soil	03/23/20 00:01
S12942.35	DUP-05	Soil	03/23/20 00:01
S12942.36	DUP-06	Soil	03/23/20 00:01
S12942.37	DUP-07	Soil	03/23/20 00:01
S12942.38	DUP-08	Soil	03/23/20 00:01
S12942.39	DUP-09	Soil	03/23/20 00:01
S12942.40	DUP-10	Soil	03/23/20 00:01
S12942.41	DUP-11	Soil	03/23/20 00:01

Analytical Laboratory Report

Lab Sample ID: S12942.01
Sample Tag: SB-10-64(4-6)_03232020
Collected Date/Time: 03/23/2020 09:30
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:51, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	500	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12942.02
Sample Tag: SB-10-64(6-8)_03232020
Collected Date/Time: 03/23/2020 09:32
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 15:45, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	20	12674-11-2	
PCB-1242	Not detected	330		ug/kg	20	53469-21-9	
PCB-1221	Not detected	330		ug/kg	20	11104-28-2	
PCB-1232	Not detected	330		ug/kg	20	11141-16-5	
PCB-1248	Not detected	330		ug/kg	20	12672-29-6	
PCB-1254	800	330		ug/kg	20	11097-69-1	
PCB-1260	Not detected	330		ug/kg	20	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12942.03
Sample Tag: SB-10-64(8-10)_03232020
Collected Date/Time: 03/23/2020 09:35
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 20:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	600	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.04
Sample Tag: SB-10-65(6-8)_03232020
Collected Date/Time: 03/23/2020 09:56
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 20:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.05
Sample Tag: SB-10-65(4-6)_03232020
Collected Date/Time: 03/23/2020 09:57
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 20:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.06
Sample Tag: SB-10-65(8-10)_03232020
Collected Date/Time: 03/23/2020 09:58
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 20:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.07
Sample Tag: SB-10-69(4-6)_03232020
Collected Date/Time: 03/23/2020 10:30
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Lab Sample ID: S12942.08
Sample Tag: SB-10-69(6-8)_03232020
Collected Date/Time: 03/23/2020 10:32
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Lab Sample ID: S12942.09
Sample Tag: SB-10-69(8-10)_03232020
Collected Date/Time: 03/23/2020 10:34
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Lab Sample ID: S12942.10
Sample Tag: SB-10-70(4-6)_03232020
Collected Date/Time: 03/23/2020 11:30
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	65	1		%	1		

Lab Sample ID: S12942.11
Sample Tag: SB-10-70(6-8)_03232020
Collected Date/Time: 03/23/2020 11:32
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Lab Sample ID: S12942.12
Sample Tag: SB-10-70(8-10)_03232020
Collected Date/Time: 03/23/2020 11:35
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Analytical Laboratory Report

Lab Sample ID: S12942.13
Sample Tag: SB-DH-RW-1-34(6-8)_03232020
Collected Date/Time: 03/23/2020 12:30
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	1,400	330		ug/kg	50	12672-29-6	
PCB-1254	Not detected	330		ug/kg	50	11097-69-1	
PCB-1260	1,500	330		ug/kg	50	11096-82-5	

Lab Sample ID: S12942.14
Sample Tag: SB-DH-RW-1-34(8-10)_03232020
Collected Date/Time: 03/23/2020 12:32
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	1,300	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	400	330		ug/kg	30	11096-82-5	

Lab Sample ID: S12942.15
Sample Tag: SB-DH-RW-1-34(10-12)_03232020
Collected Date/Time: 03/23/2020 12:35
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	1,000	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S12942.16
Sample Tag: SB-81-47(0-2)_03232020
Collected Date/Time: 03/23/2020 14:50
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 21:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.17
Sample Tag: SB-81-47(2-4)_03232020
Collected Date/Time: 03/23/2020 14:52
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 21:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.18
Sample Tag: SB-81-43(0-2)_03232020
Collected Date/Time: 03/23/2020 15:00
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	600	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S12942.19
Sample Tag: SB-81-43(2-4)_03232020
Collected Date/Time: 03/23/2020 15:02
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 16:45, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12942.20
Sample Tag: SB-81-43(2-4)_03232020 MS
Collected Date/Time: 03/23/2020 15:02
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 16:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	20	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	20	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12942.21
Sample Tag: SB-81-43(2-4)_03232020 MSD
Collected Date/Time: 03/23/2020 15:02
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 17:07, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	20	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	20	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12942.22
Sample Tag: SB-81-48(0-2)_03232020
Collected Date/Time: 03/23/2020 15:10
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Lab Sample ID: S12942.23
Sample Tag: SB-81-48(2-4)_03232020
Collected Date/Time: 03/23/2020 15:11
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Lab Sample ID: S12942.24
Sample Tag: SB-81-48(2-4)_03232020 MS
Collected Date/Time: 03/23/2020 15:11
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Lab Sample ID: S12942.25
Sample Tag: SB-81-48(2-4)_03232020 MSD
Collected Date/Time: 03/23/2020 15:11
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Analytical Laboratory Report

Lab Sample ID: S12942.26
Sample Tag: SB-81-49(0-2)_03232020
Collected Date/Time: 03/23/2020 15:30
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Lab Sample ID: S12942.27
Sample Tag: SB-81-49(2-4)_03232020
Collected Date/Time: 03/23/2020 15:32
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Lab Sample ID: S12942.28
Sample Tag: SB-81-49(2-4)_03232020 MS
Collected Date/Time: 03/23/2020 15:32
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Lab Sample ID: S12942.29
Sample Tag: SB-81-49(2-4)_03232020 MSD
Collected Date/Time: 03/23/2020 15:32
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Analytical Laboratory Report

Lab Sample ID: S12942.30
Sample Tag: SB-81-44(0-2)_03232020
Collected Date/Time: 03/23/2020 15:50
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	92	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:44, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	100	12672-29-6	Y
PCB-1254	3,800	500		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.31
Sample Tag: SB-81-44(2-4)_03232020
Collected Date/Time: 03/23/2020 15:52
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	3,100	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S12942.32
Sample Tag: SB-81-44(2-4)_03232020 MS
Collected Date/Time: 03/23/2020 15:52
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 21:07, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	3,400	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.33
Sample Tag: SB-81-44(2-4)_03232020 MSD
Collected Date/Time: 03/23/2020 15:52
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 21:18, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	100	12672-29-6	Y
PCB-1254	2,700	500		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S12942.34
Sample Tag: DUP-04
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.35
Sample Tag: DUP-05
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:45, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12942.36
Sample Tag: DUP-06
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:57, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12942.37
Sample Tag: DUP-07
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	95	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.38
Sample Tag: DUP-08
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 21:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12942.39
Sample Tag: DUP-09
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	600	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S12942.40
Sample Tag: DUP-10
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 21:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12942.41
Sample Tag: DUP-11
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	2,300	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S12942
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: Buick City - 30043300.01904
Submitted: 03/24/2020 13:00 Login User: BJB

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.7
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

133807

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, JOEY BARKER, MARY-CATHERINE GODDARD, MEGAN HUMPHERY, ERIN KOZAK
COMPANY: ARCADIS
ADDRESS: 28550 CABOT DRIVE # 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: — FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM, JOEY.BARKER@ARCADIS.COM, MEGAN.HUMPHERY@ARCADIS.COM, ERIN.KOZAK@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: QUICK CITY - 30043300.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CHRISTINA WEAVER

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	METALS - MI 10	PCBs	TCLP-METALS	SPLP-METALS	Special Instructions
12942.01	3/23/20	0930	SB-10-64 (4-6)_03232020	S	1	X								X			
.02	3/23/20	0932	SB-10-64 (6-8)_03232020	S	1	X								X			
.03	3/23/20	0935	SB-10-64 (8-10)_03232020	S	1	X								X			
.04	3/23/20	0956	SB-10-65 (6-8)_03232020	S	1	X								X			
.05	3/23/20	0957	SB-10-65 (4-6)_03232020	S	1	X								X			
.06	3/23/20	0958	SB-10-65 (8-10)_03232020	S	1	X								X			~~EXTRACT & HOLD~~ CW
.07	3/23/20	1030	SB-10-69 (4-6)_03232020	S	1	X								X			EXTRACT & HOLD
.08	3/23/20	1032	SB-10-69 (6-8)_03232020	S	1	X								X			EXTRACT & HOLD
.09	3/23/20	1034	SB-10-69 (8-10)_03232020	S	1	X								X			EXTRACT & HOLD
.10	3/23/20	1130	SB-10-70 (4-6)_03232020	S	1	X								X			EXTRACT & HOLD
.11	3/23/20	1132	SB-10-70 (6-8)_03232020	S	1	X								X			EXTRACT & HOLD
.12	3/23/20	1135	SB-10-70 (8-10)_03232020	S	1	X								X			EXTRACT & HOLD

RELINQUISHED BY: CHRISTINA WEAVER ☑ Sampler SIGNATURE/ORGANIZATION: ARCADIS DATE: 3/23/20 TIME: 1930
RECEIVED BY: NOVI COLD STORAGE / ARCADIS SIGNATURE/ORGANIZATION DATE: 3/23/20 TIME: 1930

RELINQUISHED BY: CHRISTINA WEAVER SIGNATURE/ORGANIZATION DATE: 3/24/20 TIME: 945
RECEIVED BY: SIGNATURE/ORGANIZATION DATE: 3/24/20 TIME: 945

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE: 3.24.20 TIME: 1300
RECEIVED BY: Barbara Ball SIGNATURE/ORGANIZATION DATE: 3/24/2020 TIME: 1300

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 2 OF 4

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CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, JOEY BARKER, MARY-CATHERINE GODDARD, MEGAN HUMPHERY, ERIN KOZAK
COMPANY: ARCADIS
ADDRESS: 28550 CABOT DRIVE #500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: — FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM, JOEY.BARKER@ARCADIS.COM, MEGAN.HUMPHERY@ARCADIS.COM, ERIN.KOZAK@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: QUICK CITY - 30043300.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED: ☐ 1 DAY ☐ ~~2 DAYS~~ ☐ 3 DAYS ☑ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☐ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	MEIALS-MI 10	PCBs	TCLP-METALS	SPLP-METALS	Special Instructions
12942.13	3/23/20	1230	SB-OH-RW-1-34(6-8)_03232020	S	1	X								X			
.14	3/23/20	1232	SB-OH-RW-1-34(8-10)_03232020	S	1	X								X			
.15	3/23/20	1235	SB-OH-RW-1-34(10-12)_03232020	S	1	X								X			
.16	3/23/20	1450	SB-81-47(0-2)_03232020	S	1	X								X			
.17	3/23/20	1452	SB-81-47(2-4)_03232020	S	1	X								X			
18	3/23/20	1500	SB-81-43(0-2)_03232020	S	1	X								X			
.19|.20|.21	3/23/20	1502	SB-81-43(2-4)_03232020	S	3	X								X			"MS/MSD"
.22	3/23/20	1510	SB-81-48(0-2)_03232020	S	1	X								X			EXTRACT & HOLD
.23|.24|.25	3/23/20	1511	SB-81-48(2-4)_03232020	S	3	X								X			"MS/MSD" EXTRACT & HOLD.
.26	3/23/20	1530	SB-81-49(0-2)_03232020	S	1	X								X			EXTRACT & HOLD
.27|.28|.29	3/23/20	1532	SB-81-49(2-4)_03232020	S	3	X								X			"MS/MSD" EXTRACT & HOLD
.30	3/23/20	1550	SB-81-44(0-2)_03232020	S	~~3~~ 4 CW	X								X			~~"MS/MSD"~~ CW

RELINQUISHED BY: SIGNATURE/ORGANIZATION: CHRISTINA WEAVER / ARCADIS (Sampler) DATE 3/23/20 TIME 1930
RECEIVED BY: SIGNATURE/ORGANIZATION: NOVI COLD STORAGE / ARCADIS. 3/23/20 DATE TIME 1930

RELINQUISHED BY: SIGNATURE/ORGANIZATION: CHRISTINA WEAVER DATE 3/24/20 TIME 945
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE TIME 945

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Barbie Ball DATE 3-24-20 TIME 1300
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE 3/24/2020 TIME 1300

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 4 OF 4

133810

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, JOEY BARKER, MEGAN HUMPHERY, ERIN KOZAK, MARY-CATHERINE GODDARD
COMPANY: ARCADIS
ADDRESS: 28550 CABOT DRIVE #500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: — FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM, JOEY.BARKER@ARCADIS.COM, ERIN.KOZAK@ARCADIS.COM, MEGAN.HUMPHERY@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: BUICK CITY - 30043300.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CHRISTINA WEAVER / Christina Weaver

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	METALS-MI 10	PCBs	TCLP-METALS	SPLP-METALS	Special Instructions
12942.31/.32/.33	3/23/20	1552	SB-81-44(2-4)_03232020	S	3	X								X			"MS/MSD"
.34	3/23/20	—	DUP-04	S	1	X								X			
.35	3/23/20	—	DUP-05	S	1	X								X			
.36	3/23/20	—	DUP-06	S	1	X								X			
.37	3/23/20	—	DUP-07	S	1	X								X			
.38	3/23/20	—	DUP-08	S	1	X								X			
.39	3/23/20	—	DUP-09	S	1	X								X			
.40	3/23/20	—	DUP-10	S	1	X								X			
.41	3/23/20	—	DUP-11	S	1	X								X			
	~~3/23/20~~ CW																

RELINQUISHED BY: SIGNATURE/ORGANIZATION: CHRISTINA WEAVER / ARCADIS ☑ Sampler DATE: 3/23/20 TIME: 1930
RECEIVED BY: SIGNATURE/ORGANIZATION: NOVI COLD STORAGE DATE: 3/23/20 TIME: 1930
RELINQUISHED BY: SIGNATURE/ORGANIZATION: Mark DATE: 3/24/20 TIME: 1300
RECEIVED BY: SIGNATURE/ORGANIZATION: Barbe Bull DATE: 3/24/2020 TIME: 1300

RELINQUISHED BY: SIGNATURE/ORGANIZATION: CHRISTINA WEAVER DATE: 3/24/20 TIME: 945
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: 3-24-20 TIME: 945

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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Analytical Laboratory Report

Report ID: S12942.01(01)
Generated on 04/02/2020

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Addtional Contacts: Megan Humphrey, Micki Maki, Joey Barker, Mary-Catherine Goddard

Report produced by

Merit Laboratories, Inc.
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Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S12942.01-S12942.41
Project: Buick City - 30043300.01904
Collected Date(s): 03/23/2020
Submitted Date/Time: 03/24/2020 13:00
Sampled by: Christina Weaver
P.O. #: 30043300

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (41 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S12942.01	SB-10-64(4-6)_03232020	Soil	03/23/20 09:30
S12942.02	SB-10-64(6-8)_03232020	Soil	03/23/20 09:32
S12942.03	SB-10-64(8-10)_03232020	Soil	03/23/20 09:35
S12942.04	SB-10-65(6-8)_03232020	Soil	03/23/20 09:56
S12942.05	SB-10-65(4-6)_03232020	Soil	03/23/20 09:57
S12942.06	SB-10-65(8-10)_03232020	Soil	03/23/20 09:58
S12942.07	SB-10-69(4-6)_03232020	Soil	03/23/20 10:30
S12942.08	SB-10-69(6-8)_03232020	Soil	03/23/20 10:32
S12942.09	SB-10-69(8-10)_03232020	Soil	03/23/20 10:34
S12942.10	SB-10-70(4-6)_03232020	Soil	03/23/20 11:30
S12942.11	SB-10-70(6-8)_03232020	Soil	03/23/20 11:32
S12942.12	SB-10-70(8-10)_03232020	Soil	03/23/20 11:35
S12942.13	SB-DH-RW-1-34(6-8)_03232020	Soil	03/23/20 12:30
S12942.14	SB-DH-RW-1-34(8-10)_03232020	Soil	03/23/20 12:32
S12942.15	SB-DH-RW-1-34(10-12)_03232020	Soil	03/23/20 12:35
S12942.16	SB-81-47(0-2)_03232020	Soil	03/23/20 14:50
S12942.17	SB-81-47(2-4)_03232020	Soil	03/23/20 14:52
S12942.18	SB-81-43(0-2)_03232020	Soil	03/23/20 15:00
S12942.19	SB-81-43(2-4)_03232020	Soil	03/23/20 15:02
S12942.20	SB-81-43(2-4)_03232020 MS	Soil	03/23/20 15:02
S12942.21	SB-81-43(2-4)_03232020 MSD	Soil	03/23/20 15:02
S12942.22	SB-81-48(0-2)_03232020	Soil	03/23/20 15:10
S12942.23	SB-81-48(2-4)_03232020	Soil	03/23/20 15:11
S12942.24	SB-81-48(2-4)_03232020 MS	Soil	03/23/20 15:11
S12942.25	SB-81-48(2-4)_03232020 MSD	Soil	03/23/20 15:11
S12942.26	SB-81-49(0-2)_03232020	Soil	03/23/20 15:30
S12942.27	SB-81-49(2-4)_03232020	Soil	03/23/20 15:32
S12942.28	SB-81-49(2-4)_03232020 MS	Soil	03/23/20 15:32
S12942.29	SB-81-49(2-4)_03232020 MSD	Soil	03/23/20 15:32
S12942.30	SB-81-44(0-2)_03232020	Soil	03/23/20 15:50
S12942.31	SB-81-44(2-4)_03232020	Soil	03/23/20 15:52
S12942.32	SB-81-44(2-4)_03232020 MS	Soil	03/23/20 15:52
S12942.33	SB-81-44(2-4)_03232020 MSD	Soil	03/23/20 15:52
S12942.34	DUP-04	Soil	03/23/20 00:01
S12942.35	DUP-05	Soil	03/23/20 00:01
S12942.36	DUP-06	Soil	03/23/20 00:01
S12942.37	DUP-07	Soil	03/23/20 00:01
S12942.38	DUP-08	Soil	03/23/20 00:01
S12942.39	DUP-09	Soil	03/23/20 00:01
S12942.40	DUP-10	Soil	03/23/20 00:01
S12942.41	DUP-11	Soil	03/23/20 00:01

Analytical Laboratory Report

Lab Sample ID: S12942.01
Sample Tag: SB-10-64(4-6)_03232020
Collected Date/Time: 03/23/2020 09:30
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:51, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	500	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12942.02
Sample Tag: SB-10-64(6-8)_03232020
Collected Date/Time: 03/23/2020 09:32
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 15:45, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	20	12674-11-2	
PCB-1242	Not detected	330		ug/kg	20	53469-21-9	
PCB-1221	Not detected	330		ug/kg	20	11104-28-2	
PCB-1232	Not detected	330		ug/kg	20	11141-16-5	
PCB-1248	Not detected	330		ug/kg	20	12672-29-6	
PCB-1254	800	330		ug/kg	20	11097-69-1	
PCB-1260	Not detected	330		ug/kg	20	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12942.03
Sample Tag: SB-10-64(8-10)_03232020
Collected Date/Time: 03/23/2020 09:35
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 20:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	600	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.04
Sample Tag: SB-10-65(6-8)_03232020
Collected Date/Time: 03/23/2020 09:56
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 20:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.05
Sample Tag: SB-10-65(4-6)_03232020
Collected Date/Time: 03/23/2020 09:57
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 20:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.06
Sample Tag: SB-10-65(8-10)_03232020
Collected Date/Time: 03/23/2020 09:58
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 20:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.07
Sample Tag: SB-10-69(4-6)_03232020
Collected Date/Time: 03/23/2020 10:30
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Lab Sample ID: S12942.08
Sample Tag: SB-10-69(6-8)_03232020
Collected Date/Time: 03/23/2020 10:32
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Lab Sample ID: S12942.09
Sample Tag: SB-10-69(8-10)_03232020
Collected Date/Time: 03/23/2020 10:34
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Lab Sample ID: S12942.10
Sample Tag: SB-10-70(4-6)_03232020
Collected Date/Time: 03/23/2020 11:30
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	65	1		%	1		

Lab Sample ID: S12942.11
Sample Tag: SB-10-70(6-8)_03232020
Collected Date/Time: 03/23/2020 11:32
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Lab Sample ID: S12942.12
Sample Tag: SB-10-70(8-10)_03232020
Collected Date/Time: 03/23/2020 11:35
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Analytical Laboratory Report

Lab Sample ID: S12942.13
Sample Tag: SB-DH-RW-1-34(6-8)_03232020
Collected Date/Time: 03/23/2020 12:30
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	1,400	330		ug/kg	50	12672-29-6	
PCB-1254	Not detected	330		ug/kg	50	11097-69-1	
PCB-1260	1,500	330		ug/kg	50	11096-82-5	

Lab Sample ID: S12942.14
Sample Tag: SB-DH-RW-1-34(8-10)_03232020
Collected Date/Time: 03/23/2020 12:32
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	1,300	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	400	330		ug/kg	30	11096-82-5	

Lab Sample ID: S12942.15
Sample Tag: SB-DH-RW-1-34(10-12)_03232020
Collected Date/Time: 03/23/2020 12:35
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	1,000	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S12942.16
Sample Tag: SB-81-47(0-2)_03232020
Collected Date/Time: 03/23/2020 14:50
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 21:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.17
Sample Tag: SB-81-47(2-4)_03232020
Collected Date/Time: 03/23/2020 14:52
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 21:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.18
Sample Tag: SB-81-43(0-2)_03232020
Collected Date/Time: 03/23/2020 15:00
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	600	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S12942.19
Sample Tag: SB-81-43(2-4)_03232020
Collected Date/Time: 03/23/2020 15:02
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 16:45, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12942.20
Sample Tag: SB-81-43(2-4)_03232020 MS
Collected Date/Time: 03/23/2020 15:02
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 16:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	20	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	20	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12942.21
Sample Tag: SB-81-43(2-4)_03232020 MSD
Collected Date/Time: 03/23/2020 15:02
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 17:07, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	20	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	20	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12942.22
Sample Tag: SB-81-48(0-2)_03232020
Collected Date/Time: 03/23/2020 15:10
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Lab Sample ID: S12942.23
Sample Tag: SB-81-48(2-4)_03232020
Collected Date/Time: 03/23/2020 15:11
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Lab Sample ID: S12942.24
Sample Tag: SB-81-48(2-4)_03232020 MS
Collected Date/Time: 03/23/2020 15:11
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Lab Sample ID: S12942.25
Sample Tag: SB-81-48(2-4)_03232020 MSD
Collected Date/Time: 03/23/2020 15:11
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Analytical Laboratory Report

Lab Sample ID: S12942.26
Sample Tag: SB-81-49(0-2)_03232020
Collected Date/Time: 03/23/2020 15:30
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Lab Sample ID: S12942.27
Sample Tag: SB-81-49(2-4)_03232020
Collected Date/Time: 03/23/2020 15:32
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Lab Sample ID: S12942.28
Sample Tag: SB-81-49(2-4)_03232020 MS
Collected Date/Time: 03/23/2020 15:32
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Lab Sample ID: S12942.29
Sample Tag: SB-81-49(2-4)_03232020 MSD
Collected Date/Time: 03/23/2020 15:32
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Analytical Laboratory Report

Lab Sample ID: S12942.30
Sample Tag: SB-81-44(0-2)_03232020
Collected Date/Time: 03/23/2020 15:50
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	92	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:44, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	100	12672-29-6	Y
PCB-1254	3,800	500		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.31
Sample Tag: SB-81-44(2-4)_03232020
Collected Date/Time: 03/23/2020 15:52
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	3,100	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S12942.32
Sample Tag: SB-81-44(2-4)_03232020 MS
Collected Date/Time: 03/23/2020 15:52
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 21:07, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	3,400	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.33
Sample Tag: SB-81-44(2-4)_03232020 MSD
Collected Date/Time: 03/23/2020 15:52
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 21:18, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	100	12672-29-6	Y
PCB-1254	2,700	500		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S12942.34
Sample Tag: DUP-04
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.35
Sample Tag: DUP-05
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:45, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12942.36
Sample Tag: DUP-06
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:57, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12942.37
Sample Tag: DUP-07
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	95	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.38
Sample Tag: DUP-08
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 21:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12942.39
Sample Tag: DUP-09
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	600	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S12942.40
Sample Tag: DUP-10
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 21:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12942.41
Sample Tag: DUP-11
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	2,300	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S12942
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: Buick City - 30043300.01904
Submitted: 03/24/2020 13:00 Login User: BJB

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.7
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

133807

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, JOEY BARKER, MARY-CATHERINE GODDARD, MEGAN HUMPHERY, ERIN KOZAK
COMPANY: ARCADIS
ADDRESS: 28550 CABOT DRIVE # 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: — FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM, JOEY.BARKER@ARCADIS.COM, MEGAN.HUMPHERY@ARCADIS.COM, ERIN.KOZAK@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: QUICK CITY - 30043300.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CHRISTINA WEAVER

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	METALS - MI 10	PCBs	TCLP-METALS	SPLP-METALS	Special Instructions
12942.01	3/23/20	0930	SB-10-64 (4-6)_03232020	S	1	X								X			
.02	3/23/20	0932	SB-10-64 (6-8)_03232020	S	1	X								X			
.03	3/23/20	0935	SB-10-64 (8-10)_03232020	S	1	X								X			
.04	3/23/20	0956	SB-10-65 (6-8)_03232020	S	1	X								X			
.05	3/23/20	0957	SB-10-65 (4-6)_03232020	S	1	X								X			
.06	3/23/20	0958	SB-10-65 (8-10)_03232020	S	1	X								X			~~EXTRACT & HOLD~~ CW
.07	3/23/20	1030	SB-10-69 (4-6)_03232020	S	1	X								X			EXTRACT & HOLD
.08	3/23/20	1032	SB-10-69 (6-8)_03232020	S	1	X								X			EXTRACT & HOLD
.09	3/23/20	1034	SB-10-69 (8-10)_03232020	S	1	X								X			EXTRACT & HOLD
.10	3/23/20	1130	SB-10-70 (4-6)_03232020	S	1	X								X			EXTRACT & HOLD
.11	3/23/20	1132	SB-10-70 (6-8)_03232020	S	1	X								X			EXTRACT & HOLD
.12	3/23/20	1135	SB-10-70 (8-10)_03232020	S	1	X								X			EXTRACT & HOLD

RELINQUISHED BY: CHRISTINA WEAVER ☑ Sampler SIGNATURE/ORGANIZATION: ARCADIS DATE: 3/23/20 TIME: 1930
RECEIVED BY: NOVI COLD STORAGE / ARCADIS SIGNATURE/ORGANIZATION DATE: 3/23/20 TIME: 1930

RELINQUISHED BY: CHRISTINA WEAVER SIGNATURE/ORGANIZATION DATE: 3/24/20 TIME: 945
RECEIVED BY: SIGNATURE/ORGANIZATION DATE: 3/24/20 TIME: 945

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE: 3.24.20 TIME: 1300
RECEIVED BY: Barbara Ball SIGNATURE/ORGANIZATION DATE: 3/24/2020 TIME: 1300

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 2 OF 4

133808

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, JOEY BARKER, MARY-CATHERINE GODDARD, MEGAN HUMPHERY, ERIN KOZAK
COMPANY: ARCADIS
ADDRESS: 28550 CABOT DRIVE #500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: — FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM, JOEY.BARKER@ARCADIS.COM, MEGAN.HUMPHERY@ARCADIS.COM, ERIN.KOZAK@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: QUICK CITY - 30043300.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED: ☐ 1 DAY ☐ ~~2 DAYS~~ ☐ 3 DAYS ☑ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☐ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	MEIALS-MI 10	PCBs	TCLP-METALS	SPLP-METALS	Special Instructions
12942.13	3/23/20	1230	SB-OH-RW-1-34(6-8)_03232020	S	1	X								X			
.14	3/23/20	1232	SB-OH-RW-1-34(8-10)_03232020	S	1	X								X			
.15	3/23/20	1235	SB-OH-RW-1-34(10-12)_03232020	S	1	X								X			
.16	3/23/20	1450	SB-81-47(0-2)_03232020	S	1	X								X			
.17	3/23/20	1452	SB-81-47(2-4)_03232020	S	1	X								X			
18	3/23/20	1500	SB-81-43(0-2)_03232020	S	1	X								X			
.19|.20|.21	3/23/20	1502	SB-81-43(2-4)_03232020	S	3	X								X			"MS/MSD"
.22	3/23/20	1510	SB-81-48(0-2)_03232020	S	1	X								X			EXTRACT & HOLD
.23|.24|.25	3/23/20	1511	SB-81-48(2-4)_03232020	S	3	X								X			"MS/MSD" EXTRACT & HOLD.
.26	3/23/20	1530	SB-81-49(0-2)_03232020	S	1	X								X			EXTRACT & HOLD
.27|.28|.29	3/23/20	1532	SB-81-49(2-4)_03232020	S	3	X								X			"MS/MSD" EXTRACT & HOLD
.30	3/23/20	1550	SB-81-44(0-2)_03232020	S	~~3~~ 4 CW	X								X			~~"MS/MSD"~~ CW

RELINQUISHED BY: SIGNATURE/ORGANIZATION: CHRISTINA WEAVER / ARCADIS (Sampler) DATE 3/23/20 TIME 1930
RECEIVED BY: SIGNATURE/ORGANIZATION: NOVI COLD STORAGE / ARCADIS. 3/23/20 DATE TIME 1930

RELINQUISHED BY: SIGNATURE/ORGANIZATION: CHRISTINA WEAVER DATE 3/24/20 TIME 945
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE TIME 945

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Barbie Ball DATE 3-24-20 TIME 1300
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE 3/24/2020 TIME 1300

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 4 OF 4

133810

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, JOEY BARKER, MEGAN HUMPHERY, ERIN KOZAK, MARY-CATHERINE GODDARD
COMPANY: ARCADIS
ADDRESS: 28550 CABOT DRIVE #500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: — FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM, JOEY.BARKER@ARCADIS.COM, ERIN.KOZAK@ARCADIS.COM, MEGAN.HUMPHERY@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: BUICK CITY - 30043300.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CHRISTINA WEAVER / Christina Weaver

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	METALS-MI 10	PCBs	TCLP-METALS	SPLP-METALS	Special Instructions
12942.31/.32/.33	3/23/20	1552	SB-81-44(2-4)_03232020	S	3	X								X			"MS/MSD"
.34	3/23/20	—	DUP-04	S	1	X								X			
.35	3/23/20	—	DUP-05	S	1	X								X			
.36	3/23/20	—	DUP-06	S	1	X								X			
.37	3/23/20	—	DUP-07	S	1	X								X			
.38	3/23/20	—	DUP-08	S	1	X								X			
.39	3/23/20	—	DUP-09	S	1	X								X			
.40	3/23/20	—	DUP-10	S	1	X								X			
.41	3/23/20	—	DUP-11	S	1	X								X			
	~~3/23/20~~ CW																

RELINQUISHED BY: SIGNATURE/ORGANIZATION: CHRISTINA WEAVER / ARCADIS ☑ Sampler DATE: 3/23/20 TIME: 1930
RECEIVED BY: SIGNATURE/ORGANIZATION: NOVI COLD STORAGE DATE: 3/23/20 TIME: 1930
RELINQUISHED BY: SIGNATURE/ORGANIZATION: Mark DATE: 3/24/20 TIME: 1300
RECEIVED BY: SIGNATURE/ORGANIZATION: Barbe Bull DATE: 3/24/2020 TIME: 1300

RELINQUISHED BY: SIGNATURE/ORGANIZATION: CHRISTINA WEAVER DATE: 3/24/20 TIME: 945
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: 3-24-20 TIME: 945

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Supplemental Report

Report ID: S12942.01(02)
Generated on 04/02/2020
Replaces report S12942.01(01) generated on 04/02/2020

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Addtional Contacts: Megan Humphrey, Micki Maki, Joey Barker, Mary-Catherine Goddard

Report produced by

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Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S12942.01-S12942.41
Project: Buick City - 30043300.01904
Collected Date(s): 03/23/2020
Submitted Date/Time: 03/24/2020 13:00
Sampled by: Christina Weaver
P.O. #: 30043300

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

Release samples SB-81-48 (0-2), SB-81-48 (2-4), SB-81-49 (0-2), and SB-81-49 (2-4) for analysis and sample tags .13-.15 revised

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (41 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S12942.01	SB-10-64(4-6)_03232020	Soil	03/23/20 09:30
S12942.02	SB-10-64(6-8)_03232020	Soil	03/23/20 09:32
S12942.03	SB-10-64(8-10)_03232020	Soil	03/23/20 09:35
S12942.04	SB-10-65(6-8)_03232020	Soil	03/23/20 09:56
S12942.05	SB-10-65(4-6)_03232020	Soil	03/23/20 09:57
S12942.06	SB-10-65(8-10)_03232020	Soil	03/23/20 09:58
S12942.07	SB-10-69(4-6)_03232020	Soil	03/23/20 10:30
S12942.08	SB-10-69(6-8)_03232020	Soil	03/23/20 10:32
S12942.09	SB-10-69(8-10)_03232020	Soil	03/23/20 10:34
S12942.10	SB-10-70(4-6)_03232020	Soil	03/23/20 11:30
S12942.11	SB-10-70(6-8)_03232020	Soil	03/23/20 11:32
S12942.12	SB-10-70(8-10)_03232020	Soil	03/23/20 11:35
S12942.13	SB-DH-RW-1-34(6-8)_03232020	Soil	03/23/20 12:30
S12942.14	SB-DH-RW-1-34(8-10)_03232020	Soil	03/23/20 12:32
S12942.15	SB-DH-RW-1-34(10-12)_03232020	Soil	03/23/20 12:35
S12942.16	SB-81-47(0-2)_03232020	Soil	03/23/20 14:50
S12942.17	SB-81-47(2-4)_03232020	Soil	03/23/20 14:52
S12942.18	SB-81-43(0-2)_03232020	Soil	03/23/20 15:00
S12942.19	SB-81-43(2-4)_03232020	Soil	03/23/20 15:02
S12942.20	SB-81-43(2-4)_03232020 MS	Soil	03/23/20 15:02
S12942.21	SB-81-43(2-4)_03232020 MSD	Soil	03/23/20 15:02
S12942.22	SB-81-48(0-2)_03232020	Soil	03/23/20 15:10
S12942.23	SB-81-48(2-4)_03232020	Soil	03/23/20 15:11
S12942.24	SB-81-48(2-4)_03232020 MS	Soil	03/23/20 15:11
S12942.25	SB-81-48(2-4)_03232020 MSD	Soil	03/23/20 15:11
S12942.26	SB-81-49(0-2)_03232020	Soil	03/23/20 15:30
S12942.27	SB-81-49(2-4)_03232020	Soil	03/23/20 15:32
S12942.28	SB-81-49(2-4)_03232020 MS	Soil	03/23/20 15:32
S12942.29	SB-81-49(2-4)_03232020 MSD	Soil	03/23/20 15:32
S12942.30	SB-81-44(0-2)_03232020	Soil	03/23/20 15:50
S12942.31	SB-81-44(2-4)_03232020	Soil	03/23/20 15:52
S12942.32	SB-81-44(2-4)_03232020 MS	Soil	03/23/20 15:52
S12942.33	SB-81-44(2-4)_03232020 MSD	Soil	03/23/20 15:52
S12942.34	DUP-04	Soil	03/23/20 00:01
S12942.35	DUP-05	Soil	03/23/20 00:01
S12942.36	DUP-06	Soil	03/23/20 00:01
S12942.37	DUP-07	Soil	03/23/20 00:01
S12942.38	DUP-08	Soil	03/23/20 00:01
S12942.39	DUP-09	Soil	03/23/20 00:01
S12942.40	DUP-10	Soil	03/23/20 00:01
S12942.41	DUP-11	Soil	03/23/20 00:01

Lab Sample ID: S12942.01
Sample Tag: SB-10-64(4-6)_03232020
Collected Date/Time: 03/23/2020 09:30
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:51, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	500	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.02
Sample Tag: SB-10-64(6-8)_03232020
Collected Date/Time: 03/23/2020 09:32
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 15:45, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	20	12674-11-2	
PCB-1242	Not detected	330		ug/kg	20	53469-21-9	
PCB-1221	Not detected	330		ug/kg	20	11104-28-2	
PCB-1232	Not detected	330		ug/kg	20	11141-16-5	
PCB-1248	Not detected	330		ug/kg	20	12672-29-6	
PCB-1254	800	330		ug/kg	20	11097-69-1	
PCB-1260	Not detected	330		ug/kg	20	11096-82-5	

Lab Sample ID: S12942.03
Sample Tag: SB-10-64(8-10)_03232020
Collected Date/Time: 03/23/2020 09:35
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 20:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	600	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.04
Sample Tag: SB-10-65(6-8)_03232020
Collected Date/Time: 03/23/2020 09:56
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 20:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.05
Sample Tag: SB-10-65(4-6)_03232020
Collected Date/Time: 03/23/2020 09:57
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 20:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.06
Sample Tag: SB-10-65(8-10)_03232020
Collected Date/Time: 03/23/2020 09:58
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 20:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.07

Sample Tag: SB-10-69(4-6)_03232020

Collected Date/Time: 03/23/2020 10:30

Matrix: Soil

COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Lab Sample ID: S12942.08
Sample Tag: SB-10-69(6-8)_03232020
Collected Date/Time: 03/23/2020 10:32
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Lab Sample ID: S12942.09

Sample Tag: SB-10-69(8-10)_03232020

Collected Date/Time: 03/23/2020 10:34

Matrix: Soil

COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Lab Sample ID: S12942.10

Sample Tag: SB-10-70(4-6)_03232020

Collected Date/Time: 03/23/2020 11:30

Matrix: Soil

COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	65	1		%	1		

Lab Sample ID: S12942.11
Sample Tag: SB-10-70(6-8)_03232020
Collected Date/Time: 03/23/2020 11:32
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Lab Sample ID: S12942.12

Sample Tag: SB-10-70(8-10)_03232020

Collected Date/Time: 03/23/2020 11:35

Matrix: Soil

COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Lab Sample ID: S12942.13
Sample Tag: SB-DH-RW-1-34(6-8)_03232020
Collected Date/Time: 03/23/2020 12:30
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	1,400	330		ug/kg	50	12672-29-6	
PCB-1254	Not detected	330		ug/kg	50	11097-69-1	
PCB-1260	1,500	330		ug/kg	50	11096-82-5	

Lab Sample ID: S12942.14
Sample Tag: SB-DH-RW-1-34(8-10)_03232020
Collected Date/Time: 03/23/2020 12:32
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	1,300	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	400	330		ug/kg	30	11096-82-5	

Lab Sample ID: S12942.15

Sample Tag: SB-DH-RW-1-34(10-12)_03232020

Collected Date/Time: 03/23/2020 12:35

Matrix: Soil

COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	1,000	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S12942.16
Sample Tag: SB-81-47(0-2)_03232020
Collected Date/Time: 03/23/2020 14:50
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 21:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.17
Sample Tag: SB-81-47(2-4)_03232020
Collected Date/Time: 03/23/2020 14:52
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 21:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.18
Sample Tag: SB-81-43(0-2)_03232020
Collected Date/Time: 03/23/2020 15:00
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	600	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S12942.19
Sample Tag: SB-81-43(2-4)_03232020
Collected Date/Time: 03/23/2020 15:02
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 16:45, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12942.20
Sample Tag: SB-81-43(2-4)_03232020 MS
Collected Date/Time: 03/23/2020 15:02
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 16:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	20	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	20	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12942.21
Sample Tag: SB-81-43(2-4)_03232020 MSD
Collected Date/Time: 03/23/2020 15:02
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 17:07, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	20	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	20	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12942.22
Sample Tag: SB-81-48(0-2)_03232020
Collected Date/Time: 03/23/2020 15:10
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 13:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	5	12674-11-2	
PCB-1242	Not detected	330		ug/kg	5	53469-21-9	
PCB-1221	Not detected	330		ug/kg	5	11104-28-2	
PCB-1232	Not detected	330		ug/kg	5	11141-16-5	
PCB-1248	Not detected	330		ug/kg	5	12672-29-6	
PCB-1254	Not detected	330		ug/kg	5	11097-69-1	
PCB-1260	Not detected	330		ug/kg	5	11096-82-5	

Lab Sample ID: S12942.23
Sample Tag: SB-81-48(2-4)_03232020
Collected Date/Time: 03/23/2020 15:11
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 17:18, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12942.24

Sample Tag: SB-81-48(2-4)_03232020 MS

Collected Date/Time: 03/23/2020 15:11

Matrix: Soil

COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 17:30, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	40	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12942.25

Sample Tag: SB-81-48(2-4)_03232020 MSD

Collected Date/Time: 03/23/2020 15:11

Matrix: Soil

COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 17:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	40	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12942.26
Sample Tag: SB-81-49(0-2)_03232020
Collected Date/Time: 03/23/2020 15:30
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 18:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	2,200	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.27
Sample Tag: SB-81-49(2-4)_03232020
Collected Date/Time: 03/23/2020 15:32
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 19:04, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	5,200	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.28
Sample Tag: SB-81-49(2-4)_03232020 MS
Collected Date/Time: 03/23/2020 15:32
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 19:15, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	3,300	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.29
Sample Tag: SB-81-49(2-4)_03232020 MSD
Collected Date/Time: 03/23/2020 15:32
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	4,300	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.30
Sample Tag: SB-81-44(0-2)_03232020
Collected Date/Time: 03/23/2020 15:50
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	92	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:44, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	100	12672-29-6	Y
PCB-1254	3,800	500		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.31
Sample Tag: SB-81-44(2-4)_03232020
Collected Date/Time: 03/23/2020 15:52
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	3,100	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.32
Sample Tag: SB-81-44(2-4)_03232020 MS
Collected Date/Time: 03/23/2020 15:52
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 21:07, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	3,400	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.33
Sample Tag: SB-81-44(2-4)_03232020 MSD
Collected Date/Time: 03/23/2020 15:52
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 21:18, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	100	12672-29-6	Y
PCB-1254	2,700	500		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.34
Sample Tag: DUP-04
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.35
Sample Tag: DUP-05
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:45, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.36
Sample Tag: DUP-06
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:57, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.37
Sample Tag: DUP-07
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	95	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.38
Sample Tag: DUP-08
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 21:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.39
Sample Tag: DUP-09
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	600	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S12942.40
Sample Tag: DUP-10
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 21:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.41
Sample Tag: DUP-11
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	2,300	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S12942
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: Buick City - 30043300.01904
Submitted: 03/24/2020 13:00 Login User: BJB

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.7
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
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C.O.C. PAGE # 1 OF 1

133807

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, JOEY BARKER, MARY-CATHERINE GODDARD, MEGAN HUMPHERY, ERIN KOZAK
COMPANY: ARCADIS
ADDRESS: 28550 CABOT DRIVE # 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: — FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM, JOEY.BARKER@ARCADIS.COM, MEGAN.HUMPHERY@ARCADIS.COM, ERIN.KOZAK@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: QUICK CITY - 30043300.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CHRISTINA WEAVER

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	METALS - MI 10	PCBs	TCLP-METALS	SPLP-METALS	Special Instructions
12942.01	3/23/20	0930	SB-10-64 (4-6)_03232020	S	1	X								X			
.02	3/23/20	0932	SB-10-64 (6-8)_03232020	S	1	X								X			
.03	3/23/20	0935	SB-10-64 (8-10)_03232020	S	1	X								X			
.04	3/23/20	0956	SB-10-65 (6-8)_03232020	S	1	X								X			
.05	3/23/20	0957	SB-10-65 (4-6)_03232020	S	1	X								X			
.06	3/23/20	0958	SB-10-65 (8-10)_03232020	S	1	X								X			~~EXTRACT & HOLD~~ CW
.07	3/23/20	1030	SB-10-69 (4-6)_03232020	S	1	X								X			EXTRACT & HOLD
.08	3/23/20	1032	SB-10-69 (6-8)_03232020	S	1	X								X			EXTRACT & HOLD
.09	3/23/20	1034	SB-10-69 (8-10)_03232020	S	1	X								X			EXTRACT & HOLD
.10	3/23/20	1130	SB-10-70 (4-6)_03232020	S	1	X								X			EXTRACT & HOLD
.11	3/23/20	1132	SB-10-70 (6-8)_03232020	S	1	X								X			EXTRACT & HOLD
.12	3/23/20	1135	SB-10-70 (8-10)_03232020	S	1	X								X			EXTRACT & HOLD

RELINQUISHED BY: CHRISTINA WEAVER ☑ Sampler SIGNATURE/ORGANIZATION: ARCADIS DATE: 3/23/20 TIME: 1930
RECEIVED BY: NOVI COLD STORAGE / ARCADIS SIGNATURE/ORGANIZATION DATE: 3/23/20 TIME: 1930

RELINQUISHED BY: CHRISTINA WEAVER SIGNATURE/ORGANIZATION DATE: 3/24/20 TIME: 945
RECEIVED BY: SIGNATURE/ORGANIZATION DATE: 3/24/20 TIME: 945

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE: 3.24.20 TIME: 1300
RECEIVED BY: Barbara Ball SIGNATURE/ORGANIZATION DATE: 3/24/2020 TIME: 1300

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

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C.O.C. PAGE # 2 OF 4

133808

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, JOEY BARKER, MARY-CATHERINE GODDARD, MEGAN HUMPHERY, ERIN KOZAK
COMPANY: ARCADIS
ADDRESS: 28550 CABOT DRIVE #500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: — FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM, JOEY.BARKER@ARCADIS.COM, MEGAN.HUMPHERY@ARCADIS.COM, ERIN.KOZAK@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: QUICK CITY - 30043300.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED: ☐ 1 DAY ☐ ~~2 DAYS~~ ☐ 3 DAYS ☑ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☐ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	MEIALS-MI 10	PCBs	TCLP-METALS	SPLP-METALS	Special Instructions
12942.13	3/23/20	1230	SB-OH-RW-1-34(6-8)_03232020	S	1	X								X			
.14	3/23/20	1232	SB-OH-RW-1-34(8-10)_03232020	S	1	X								X			
.15	3/23/20	1235	SB-OH-RW-1-34(10-12)_03232020	S	1	X								X			
.16	3/23/20	1450	SB-81-47(0-2)_03232020	S	1	X								X			
.17	3/23/20	1452	SB-81-47(2-4)_03232020	S	1	X								X			
18	3/23/20	1500	SB-81-43(0-2)_03232020	S	1	X								X			
.19|.20|.21	3/23/20	1502	SB-81-43(2-4)_03232020	S	3	X								X			"MS/MSD"
.22	3/23/20	1510	SB-81-48(0-2)_03232020	S	1	X								X			EXTRACT & HOLD
.23|.24|.25	3/23/20	1511	SB-81-48(2-4)_03232020	S	3	X								X			"MS/MSD" EXTRACT & HOLD.
.26	3/23/20	1530	SB-81-49(0-2)_03232020	S	1	X								X			EXTRACT & HOLD
.27|.28|.29	3/23/20	1532	SB-81-49(2-4)_03232020	S	3	X								X			"MS/MSD" EXTRACT & HOLD
.30	3/23/20	1550	SB-81-44(0-2)_03232020	S	~~3~~ 4 CW	X								X			~~"MS/MSD"~~ CW

RELINQUISHED BY: SIGNATURE/ORGANIZATION: CHRISTINA WEAVER / ARCADIS (Sampler) DATE 3/23/20 TIME 1930
RECEIVED BY: SIGNATURE/ORGANIZATION: NOVI COLD STORAGE / ARCADIS. 3/23/20 DATE TIME 1930

RELINQUISHED BY: SIGNATURE/ORGANIZATION: CHRISTINA WEAVER DATE 3/24/20 TIME 945
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE TIME 945

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Barbie Ball DATE 3-24-20 TIME 1300
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE 3/24/2020 TIME 1300

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 4 OF 4

133810

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, JOEY BARKER, MEGAN HUMPHERY, ERIN KOZAK, MARY-CATHERINE GODDARD
COMPANY: ARCADIS
ADDRESS: 28550 CABOT DRIVE #500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: — FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM, JOEY.BARKER@ARCADIS.COM, ERIN.KOZAK@ARCADIS.COM, MEGAN.HUMPHERY@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: BUICK CITY - 30043300.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CHRISTINA WEAVER / Christina Weaver

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	METALS-MI 10	PCBs	TCLP-METALS	SPLP-METALS	Special Instructions
12942.31/.32/.33	3/23/20	1552	SB-81-44(2-4)_03232020	S	3	X								X			"MS/MSD"
.34	3/23/20	—	DUP-04	S	1	X								X			
.35	3/23/20	—	DUP-05	S	1	X								X			
.36	3/23/20	—	DUP-06	S	1	X								X			
.37	3/23/20	—	DUP-07	S	1	X								X			
.38	3/23/20	—	DUP-08	S	1	X								X			
.39	3/23/20	—	DUP-09	S	1	X								X			
.40	3/23/20	—	DUP-10	S	1	X								X			
.41	3/23/20	—	DUP-11	S	1	X								X			
	~~3/23/20~~ CW																

RELINQUISHED BY: SIGNATURE/ORGANIZATION: CHRISTINA WEAVER / ARCADIS ☑ Sampler DATE: 3/23/20 TIME: 1930
RECEIVED BY: SIGNATURE/ORGANIZATION: NOVI COLD STORAGE DATE: 3/23/20 TIME: 1930
RELINQUISHED BY: SIGNATURE/ORGANIZATION: Mark DATE: 3/24/20 TIME: 1300
RECEIVED BY: SIGNATURE/ORGANIZATION: Barbe Bull DATE: 3/24/2020 TIME: 1300

RELINQUISHED BY: SIGNATURE/ORGANIZATION: CHRISTINA WEAVER DATE: 3/24/20 TIME: 945
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: 3-24-20 TIME: 945

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Supplemental Report

Report ID: S12942.01(02)
Generated on 04/02/2020
Replaces report S12942.01(01) generated on 04/02/2020

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Addtional Contacts: Megan Humphrey, Micki Maki, Joey Barker, Mary-Catherine Goddard

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S12942.01-S12942.41
Project: Buick City - 30043300.01904
Collected Date(s): 03/23/2020
Submitted Date/Time: 03/24/2020 13:00
Sampled by: Christina Weaver
P.O. #: 30043300

Table of Contents

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Sample Summary (Page 5)

Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

Release samples SB-81-48 (0-2), SB-81-48 (2-4), SB-81-49 (0-2), and SB-81-49 (2-4) for analysis and sample tags .13-.15 revised

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (41 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S12942.01	SB-10-64(4-6)_03232020	Soil	03/23/20 09:30
S12942.02	SB-10-64(6-8)_03232020	Soil	03/23/20 09:32
S12942.03	SB-10-64(8-10)_03232020	Soil	03/23/20 09:35
S12942.04	SB-10-65(6-8)_03232020	Soil	03/23/20 09:56
S12942.05	SB-10-65(4-6)_03232020	Soil	03/23/20 09:57
S12942.06	SB-10-65(8-10)_03232020	Soil	03/23/20 09:58
S12942.07	SB-10-69(4-6)_03232020	Soil	03/23/20 10:30
S12942.08	SB-10-69(6-8)_03232020	Soil	03/23/20 10:32
S12942.09	SB-10-69(8-10)_03232020	Soil	03/23/20 10:34
S12942.10	SB-10-70(4-6)_03232020	Soil	03/23/20 11:30
S12942.11	SB-10-70(6-8)_03232020	Soil	03/23/20 11:32
S12942.12	SB-10-70(8-10)_03232020	Soil	03/23/20 11:35
S12942.13	SB-DH-RW-1-34(6-8)_03232020	Soil	03/23/20 12:30
S12942.14	SB-DH-RW-1-34(8-10)_03232020	Soil	03/23/20 12:32
S12942.15	SB-DH-RW-1-34(10-12)_03232020	Soil	03/23/20 12:35
S12942.16	SB-81-47(0-2)_03232020	Soil	03/23/20 14:50
S12942.17	SB-81-47(2-4)_03232020	Soil	03/23/20 14:52
S12942.18	SB-81-43(0-2)_03232020	Soil	03/23/20 15:00
S12942.19	SB-81-43(2-4)_03232020	Soil	03/23/20 15:02
S12942.20	SB-81-43(2-4)_03232020 MS	Soil	03/23/20 15:02
S12942.21	SB-81-43(2-4)_03232020 MSD	Soil	03/23/20 15:02
S12942.22	SB-81-48(0-2)_03232020	Soil	03/23/20 15:10
S12942.23	SB-81-48(2-4)_03232020	Soil	03/23/20 15:11
S12942.24	SB-81-48(2-4)_03232020 MS	Soil	03/23/20 15:11
S12942.25	SB-81-48(2-4)_03232020 MSD	Soil	03/23/20 15:11
S12942.26	SB-81-49(0-2)_03232020	Soil	03/23/20 15:30
S12942.27	SB-81-49(2-4)_03232020	Soil	03/23/20 15:32
S12942.28	SB-81-49(2-4)_03232020 MS	Soil	03/23/20 15:32
S12942.29	SB-81-49(2-4)_03232020 MSD	Soil	03/23/20 15:32
S12942.30	SB-81-44(0-2)_03232020	Soil	03/23/20 15:50
S12942.31	SB-81-44(2-4)_03232020	Soil	03/23/20 15:52
S12942.32	SB-81-44(2-4)_03232020 MS	Soil	03/23/20 15:52
S12942.33	SB-81-44(2-4)_03232020 MSD	Soil	03/23/20 15:52
S12942.34	DUP-04	Soil	03/23/20 00:01
S12942.35	DUP-05	Soil	03/23/20 00:01
S12942.36	DUP-06	Soil	03/23/20 00:01
S12942.37	DUP-07	Soil	03/23/20 00:01
S12942.38	DUP-08	Soil	03/23/20 00:01
S12942.39	DUP-09	Soil	03/23/20 00:01
S12942.40	DUP-10	Soil	03/23/20 00:01
S12942.41	DUP-11	Soil	03/23/20 00:01

Lab Sample ID: S12942.01
Sample Tag: SB-10-64(4-6)_03232020
Collected Date/Time: 03/23/2020 09:30
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:51, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	500	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.02
Sample Tag: SB-10-64(6-8)_03232020
Collected Date/Time: 03/23/2020 09:32
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 15:45, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	20	12674-11-2	
PCB-1242	Not detected	330		ug/kg	20	53469-21-9	
PCB-1221	Not detected	330		ug/kg	20	11104-28-2	
PCB-1232	Not detected	330		ug/kg	20	11141-16-5	
PCB-1248	Not detected	330		ug/kg	20	12672-29-6	
PCB-1254	800	330		ug/kg	20	11097-69-1	
PCB-1260	Not detected	330		ug/kg	20	11096-82-5	

Lab Sample ID: S12942.03
Sample Tag: SB-10-64(8-10)_03232020
Collected Date/Time: 03/23/2020 09:35
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 20:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	600	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.04
Sample Tag: SB-10-65(6-8)_03232020
Collected Date/Time: 03/23/2020 09:56
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 20:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.05
Sample Tag: SB-10-65(4-6)_03232020
Collected Date/Time: 03/23/2020 09:57
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 20:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.06
Sample Tag: SB-10-65(8-10)_03232020
Collected Date/Time: 03/23/2020 09:58
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 20:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.07

Sample Tag: SB-10-69(4-6)_03232020

Collected Date/Time: 03/23/2020 10:30

Matrix: Soil

COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Lab Sample ID: S12942.08
Sample Tag: SB-10-69(6-8)_03232020
Collected Date/Time: 03/23/2020 10:32
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Lab Sample ID: S12942.09

Sample Tag: SB-10-69(8-10)_03232020

Collected Date/Time: 03/23/2020 10:34

Matrix: Soil

COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Lab Sample ID: S12942.10

Sample Tag: SB-10-70(4-6)_03232020

Collected Date/Time: 03/23/2020 11:30

Matrix: Soil

COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	65	1		%	1		

Lab Sample ID: S12942.11
Sample Tag: SB-10-70(6-8)_03232020
Collected Date/Time: 03/23/2020 11:32
Matrix: Soil
COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Lab Sample ID: S12942.12

Sample Tag: SB-10-70(8-10)_03232020

Collected Date/Time: 03/23/2020 11:35

Matrix: Soil

COC Reference: 133807

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Lab Sample ID: S12942.13
Sample Tag: SB-DH-RW-1-34(6-8)_03232020
Collected Date/Time: 03/23/2020 12:30
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	1,400	330		ug/kg	50	12672-29-6	
PCB-1254	Not detected	330		ug/kg	50	11097-69-1	
PCB-1260	1,500	330		ug/kg	50	11096-82-5	

Lab Sample ID: S12942.14
Sample Tag: SB-DH-RW-1-34(8-10)_03232020
Collected Date/Time: 03/23/2020 12:32
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	1,300	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	400	330		ug/kg	30	11096-82-5	

Lab Sample ID: S12942.15

Sample Tag: SB-DH-RW-1-34(10-12)_03232020

Collected Date/Time: 03/23/2020 12:35

Matrix: Soil

COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	1,000	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S12942.16
Sample Tag: SB-81-47(0-2)_03232020
Collected Date/Time: 03/23/2020 14:50
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 21:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.17
Sample Tag: SB-81-47(2-4)_03232020
Collected Date/Time: 03/23/2020 14:52
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 21:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.18
Sample Tag: SB-81-43(0-2)_03232020
Collected Date/Time: 03/23/2020 15:00
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	600	330		ug/kg	30	12672-29-6	
PCB-1254	Not detected	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S12942.19
Sample Tag: SB-81-43(2-4)_03232020
Collected Date/Time: 03/23/2020 15:02
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 16:45, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12942.20
Sample Tag: SB-81-43(2-4)_03232020 MS
Collected Date/Time: 03/23/2020 15:02
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 16:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	20	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	20	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12942.21
Sample Tag: SB-81-43(2-4)_03232020 MSD
Collected Date/Time: 03/23/2020 15:02
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 15:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 17:07, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	20	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	20	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12942.22
Sample Tag: SB-81-48(0-2)_03232020
Collected Date/Time: 03/23/2020 15:10
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 13:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	5	12674-11-2	
PCB-1242	Not detected	330		ug/kg	5	53469-21-9	
PCB-1221	Not detected	330		ug/kg	5	11104-28-2	
PCB-1232	Not detected	330		ug/kg	5	11141-16-5	
PCB-1248	Not detected	330		ug/kg	5	12672-29-6	
PCB-1254	Not detected	330		ug/kg	5	11097-69-1	
PCB-1260	Not detected	330		ug/kg	5	11096-82-5	

Lab Sample ID: S12942.23
Sample Tag: SB-81-48(2-4)_03232020
Collected Date/Time: 03/23/2020 15:11
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 17:18, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12942.24

Sample Tag: SB-81-48(2-4)_03232020 MS

Collected Date/Time: 03/23/2020 15:11

Matrix: Soil

COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 17:30, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	40	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12942.25

Sample Tag: SB-81-48(2-4)_03232020 MSD

Collected Date/Time: 03/23/2020 15:11

Matrix: Soil

COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 17:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	30	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	40	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12942.26
Sample Tag: SB-81-49(0-2)_03232020
Collected Date/Time: 03/23/2020 15:30
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 18:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	2,200	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.27
Sample Tag: SB-81-49(2-4)_03232020
Collected Date/Time: 03/23/2020 15:32
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 19:04, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	5,200	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.28
Sample Tag: SB-81-49(2-4)_03232020 MS
Collected Date/Time: 03/23/2020 15:32
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 19:15, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	3,300	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.29
Sample Tag: SB-81-49(2-4)_03232020 MSD
Collected Date/Time: 03/23/2020 15:32
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	4,300	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.30
Sample Tag: SB-81-44(0-2)_03232020
Collected Date/Time: 03/23/2020 15:50
Matrix: Soil
COC Reference: 133808

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	92	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:44, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	100	12672-29-6	Y
PCB-1254	3,800	500		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.31
Sample Tag: SB-81-44(2-4)_03232020
Collected Date/Time: 03/23/2020 15:52
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	3,100	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.32
Sample Tag: SB-81-44(2-4)_03232020 MS
Collected Date/Time: 03/23/2020 15:52
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 21:07, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y
PCB-1254	3,400	600		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.33
Sample Tag: SB-81-44(2-4)_03232020 MSD
Collected Date/Time: 03/23/2020 15:52
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 21:18, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	100	12672-29-6	Y
PCB-1254	2,700	500		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S12942.34
Sample Tag: DUP-04
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.35
Sample Tag: DUP-05
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:45, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.36
Sample Tag: DUP-06
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:57, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.37
Sample Tag: DUP-07
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	95	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.38
Sample Tag: DUP-08
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 21:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.39
Sample Tag: DUP-09
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	Not detected	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	600	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Lab Sample ID: S12942.40
Sample Tag: DUP-10
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/27/20 17:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 21:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12942.41
Sample Tag: DUP-11
Collected Date/Time: 03/23/2020 00:01
Matrix: Soil
COC Reference: 133810

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	2,300	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S12942
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: Buick City - 30043300.01904
Submitted: 03/24/2020 13:00 Login User: BJB

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.7
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

133807

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, JOEY BARKER, MARY-CATHERINE GODDARD, MEGAN HUMPHERY, ERIN KOZAK
COMPANY: ARCADIS
ADDRESS: 28550 CABOT DRIVE # 500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: — FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM, JOEY.BARKER@ARCADIS.COM, MEGAN.HUMPHERY@ARCADIS.COM, ERIN.KOZAK@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: QUICK CITY - 30043300.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CHRISTINA WEAVER

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	METALS - MI 10	PCBs	TCLP-METALS	SPLP-METALS	Special Instructions
12942.01	3/23/20	0930	SB-10-64 (4-6)_03232020	S	1	X								X			
.02	3/23/20	0932	SB-10-64 (6-8)_03232020	S	1	X								X			
.03	3/23/20	0935	SB-10-64 (8-10)_03232020	S	1	X								X			
.04	3/23/20	0956	SB-10-65 (6-8)_03232020	S	1	X								X			
.05	3/23/20	0957	SB-10-65 (4-6)_03232020	S	1	X								X			
.06	3/23/20	0958	SB-10-65 (8-10)_03232020	S	1	X								X			~~EXTRACT & HOLD~~ CW
.07	3/23/20	1030	SB-10-69 (4-6)_03232020	S	1	X								X			EXTRACT & HOLD
.08	3/23/20	1032	SB-10-69 (6-8)_03232020	S	1	X								X			EXTRACT & HOLD
.09	3/23/20	1034	SB-10-69 (8-10)_03232020	S	1	X								X			EXTRACT & HOLD
.10	3/23/20	1130	SB-10-70 (4-6)_03232020	S	1	X								X			EXTRACT & HOLD
.11	3/23/20	1132	SB-10-70 (6-8)_03232020	S	1	X								X			EXTRACT & HOLD
.12	3/23/20	1135	SB-10-70 (8-10)_03232020	S	1	X								X			EXTRACT & HOLD

RELINQUISHED BY: CHRISTINA WEAVER ☑ Sampler SIGNATURE/ORGANIZATION: ARCADIS DATE: 3/23/20 TIME: 1930
RECEIVED BY: NOVI COLD STORAGE / ARCADIS SIGNATURE/ORGANIZATION DATE: 3/23/20 TIME: 1930

RELINQUISHED BY: CHRISTINA WEAVER SIGNATURE/ORGANIZATION DATE: 3/24/20 TIME: 945
RECEIVED BY: SIGNATURE/ORGANIZATION DATE: 3/24/20 TIME: 945

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE: 3.24.20 TIME: 1300
RECEIVED BY: Barbara Ball SIGNATURE/ORGANIZATION DATE: 3/24/2020 TIME: 1300

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

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C.O.C. PAGE # 2 OF 4

133808

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, JOEY BARKER, MARY-CATHERINE GODDARD, MEGAN HUMPHERY, ERIN KOZAK
COMPANY: ARCADIS
ADDRESS: 28550 CABOT DRIVE #500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: — FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM, JOEY.BARKER@ARCADIS.COM, MEGAN.HUMPHERY@ARCADIS.COM, ERIN.KOZAK@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: QUICK CITY - 30043300.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED: ☐ 1 DAY ☐ ~~2 DAYS~~ ☐ 3 DAYS ☑ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☐ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	MEIALS-MI 10	PCBs	TCLP-METALS	SPLP-METALS	Special Instructions
12942.13	3/23/20	1230	SB-OH-RW-1-34(6-8)_03232020	S	1	X								X			
.14	3/23/20	1232	SB-OH-RW-1-34(8-10)_03232020	S	1	X								X			
.15	3/23/20	1235	SB-OH-RW-1-34(10-12)_03232020	S	1	X								X			
.16	3/23/20	1450	SB-81-47(0-2)_03232020	S	1	X								X			
.17	3/23/20	1452	SB-81-47(2-4)_03232020	S	1	X								X			
18	3/23/20	1500	SB-81-43(0-2)_03232020	S	1	X								X			
.19|.20|.21	3/23/20	1502	SB-81-43(2-4)_03232020	S	3	X								X			"MS/MSD"
.22	3/23/20	1510	SB-81-48(0-2)_03232020	S	1	X								X			EXTRACT & HOLD
.23|.24|.25	3/23/20	1511	SB-81-48(2-4)_03232020	S	3	X								X			"MS/MSD" EXTRACT & HOLD.
.26	3/23/20	1530	SB-81-49(0-2)_03232020	S	1	X								X			EXTRACT & HOLD
.27|.28|.29	3/23/20	1532	SB-81-49(2-4)_03232020	S	3	X								X			"MS/MSD" EXTRACT & HOLD
.30	3/23/20	1550	SB-81-44(0-2)_03232020	S	~~3~~ 4 CW	X								X			~~"MS/MSD"~~ CW

RELINQUISHED BY: SIGNATURE/ORGANIZATION: CHRISTINA WEAVER / ARCADIS (Sampler) DATE 3/23/20 TIME 1930
RECEIVED BY: SIGNATURE/ORGANIZATION: NOVI COLD STORAGE / ARCADIS. 3/23/20 DATE TIME 1930

RELINQUISHED BY: SIGNATURE/ORGANIZATION: CHRISTINA WEAVER DATE 3/24/20 TIME 945
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE TIME 945

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Barbie Ball DATE 3-24-20 TIME 1300
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE 3/24/2020 TIME 1300

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 4 OF 4

133810

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MICKI MAKI, JOEY BARKER, MEGAN HUMPHERY, ERIN KOZAK, MARY-CATHERINE GODDARD
COMPANY: ARCADIS
ADDRESS: 28550 CABOT DRIVE #500
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: — FAX NO.: — P.O. NO.: —
E-MAIL ADDRESS: MICKI.MAKI@ARCADIS.COM, JOEY.BARKER@ARCADIS.COM, ERIN.KOZAK@ARCADIS.COM, MEGAN.HUMPHERY@ARCADIS.COM QUOTE NO.: —

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: BUICK CITY - 30043300.01904
SAMPLER(S) - PLEASE PRINT/SIGN NAME: CHRISTINA WEAVER / Christina Weaver

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	METALS-MI 10	PCBs	TCLP-METALS	SPLP-METALS	Special Instructions
12942.31/.32/.33	3/23/20	1552	SB-81-44(2-4)_03232020	S	3	X								X			"MS/MSD"
.34	3/23/20	—	DUP-04	S	1	X								X			
.35	3/23/20	—	DUP-05	S	1	X								X			
.36	3/23/20	—	DUP-06	S	1	X								X			
.37	3/23/20	—	DUP-07	S	1	X								X			
.38	3/23/20	—	DUP-08	S	1	X								X			
.39	3/23/20	—	DUP-09	S	1	X								X			
.40	3/23/20	—	DUP-10	S	1	X								X			
.41	3/23/20	—	DUP-11	S	1	X								X			
	~~3/23/20~~ CW																

RELINQUISHED BY: SIGNATURE/ORGANIZATION: CHRISTINA WEAVER / ARCADIS ☑ Sampler DATE: 3/23/20 TIME: 1930
RECEIVED BY: SIGNATURE/ORGANIZATION: NOVI COLD STORAGE DATE: 3/23/20 TIME: 1930
RELINQUISHED BY: SIGNATURE/ORGANIZATION: Mark DATE: 3/24/20 TIME: 1300
RECEIVED BY: SIGNATURE/ORGANIZATION: Barbe Bull DATE: 3/24/2020 TIME: 1300

RELINQUISHED BY: SIGNATURE/ORGANIZATION: CHRISTINA WEAVER DATE: 3/24/20 TIME: 945
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: 3-24-20 TIME: 945

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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Analytical Laboratory Report

Report ID: S12943.01(01)
Generated on 04/02/2020

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Addtional Contacts: Megan Humphrey, Micki Maki, Joey Barker, Mary-Catherine Goddard

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

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Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S12943.01-S12943.25
Project: 30043300.01904/Buick City
Collected Date(s): 03/23/2020
Submitted Date/Time: 03/24/2020 13:00
Sampled by: Seth Turner
P.O. #: 30043300

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (25 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S12943.01	SB-10-72(4-6)_03232020	Soil	03/23/20 12:10
S12943.02	SB-10-72(6-8)_03232020	Soil	03/23/20 12:15
S12943.03	SB-10-72(8-10)_03232020	Soil	03/23/20 12:20
S12943.04	SB-10-66(4-6)_03232020	Soil	03/23/20 11:50
S12943.05	SB-10-66(6-8)_03232020	Soil	03/23/20 11:55
S12943.06	SB-10-66(8-10)_03232020	Soil	03/23/20 12:00
S12943.07	SB-10-73(4-6)_03232020	Soil	03/23/20 10:45
S12943.08	SB-10-73(6-8)_03232020	Soil	03/23/20 10:50
S12943.09	SB-10-73(8-10)_03232020	Soil	03/23/20 10:55
S12943.10	SB-10-67(0-2)_03232020	Soil	03/23/20 09:45
S12943.11	SB-10-74(4-6)_03232020	Soil	03/23/20 09:25
S12943.12	SB-10-74(6-8)_03232020	Soil	03/23/20 09:28
S12943.13	SB-10-74(8-10)_03232020	Soil	03/23/20 09:30
S12943.14	SB-81-50(0-2)_03232020	Soil	03/23/20 15:12
S12943.15	SB-81-50(2-4)_03232020	Soil	03/23/20 15:15
S12943.16	SB-81-52(0-2)_03232020	Soil	03/23/20 16:15
S12943.17	SB-81-51(0-2)_03232020	Soil	03/23/20 16:30
S12943.18	SB-81-51(2-4)_03232020	Soil	03/23/20 16:35
S12943.19	SB-81-46(0-2)_03232020	Soil	03/23/20 15:40
S12943.20	SB-81-46(2-4)_03232020	Soil	03/23/20 15:45
S12943.21	SB-81-45(0-2)_03232020	Soil	03/23/20 15:28
S12943.22	SB-81-45(2-4)_03232020	Soil	03/23/20 15:30
S12943.23	SB-10-71(4-6)_03232020	Soil	03/23/20 13:25
S12943.24	SB-10-71(6-8)_03232020	Soil	03/23/20 14:20
S12943.25	SB-10-71(8-10)_03232020	Soil	03/23/20 14:25

Analytical Laboratory Report

Lab Sample ID: S12943.01
Sample Tag: SB-10-72(4-6)_03232020
Collected Date/Time: 03/23/2020 12:10
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 17:51, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.02
Sample Tag: SB-10-72(6-8)_03232020
Collected Date/Time: 03/23/2020 12:15
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 18:03, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.03
Sample Tag: SB-10-72(8-10)_03232020
Collected Date/Time: 03/23/2020 12:20
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 18:15, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12943.04
Sample Tag: SB-10-66(4-6)_03232020
Collected Date/Time: 03/23/2020 11:50
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 18:27, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.05
Sample Tag: SB-10-66(6-8)_03232020
Collected Date/Time: 03/23/2020 11:55
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 16:08, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12943.06
Sample Tag: SB-10-66(8-10)_03232020
Collected Date/Time: 03/23/2020 12:00
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 16:20, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12943.07
Sample Tag: SB-10-73(4-6)_03232020
Collected Date/Time: 03/23/2020 10:45
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	96	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:03, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.08
Sample Tag: SB-10-73(6-8)_03232020
Collected Date/Time: 03/23/2020 10:50
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:15, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.09
Sample Tag: SB-10-73(8-10)_03232020
Collected Date/Time: 03/23/2020 10:55
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:27, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.10
Sample Tag: SB-10-67(0-2)_03232020
Collected Date/Time: 03/23/2020 09:45
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	97	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 15:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12943.11
Sample Tag: SB-10-74(4-6)_03232020
Collected Date/Time: 03/23/2020 09:25
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 19:32, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.12
Sample Tag: SB-10-74(6-8)_03232020
Collected Date/Time: 03/23/2020 09:28
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 19:44, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.13
Sample Tag: SB-10-74(8-10)_03232020
Collected Date/Time: 03/23/2020 09:30
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 19:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12943.14
Sample Tag: SB-81-50(0-2)_03232020
Collected Date/Time: 03/23/2020 15:12
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 19:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	100	12674-11-2	
PCB-1242	Not detected	500		ug/kg	100	53469-21-9	
PCB-1221	Not detected	500		ug/kg	100	11104-28-2	
PCB-1232	Not detected	500		ug/kg	100	11141-16-5	
PCB-1248	Not detected	500		ug/kg	100	12672-29-6	
PCB-1254	1,000	500		ug/kg	100	11097-69-1	
PCB-1260	Not detected	500		ug/kg	100	11096-82-5	

Lab Sample ID: S12943.15
Sample Tag: SB-81-50(2-4)_03232020
Collected Date/Time: 03/23/2020 15:15
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 19:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	3	12674-11-2	
PCB-1242	Not detected	330		ug/kg	3	53469-21-9	
PCB-1221	Not detected	330		ug/kg	3	11104-28-2	
PCB-1232	Not detected	330		ug/kg	3	11141-16-5	
PCB-1248	Not detected	330		ug/kg	3	12672-29-6	
PCB-1254	Not detected	330		ug/kg	3	11097-69-1	
PCB-1260	Not detected	330		ug/kg	3	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12943.16
Sample Tag: SB-81-52(0-2)_03232020
Collected Date/Time: 03/23/2020 16:15
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:08, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.17
Sample Tag: SB-81-51(0-2)_03232020
Collected Date/Time: 03/23/2020 16:30
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/01/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 13:17, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12943.18
Sample Tag: SB-81-51(2-4)_03232020
Collected Date/Time: 03/23/2020 16:35
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/01/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 13:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12943.19
Sample Tag: SB-81-46(0-2)_03232020
Collected Date/Time: 03/23/2020 15:40
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/01/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	94	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 13:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12943.20
Sample Tag: SB-81-46(2-4)_03232020
Collected Date/Time: 03/23/2020 15:45
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/01/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 14:17, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.21
Sample Tag: SB-81-45(0-2)_03232020
Collected Date/Time: 03/23/2020 15:28
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/01/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 13:53, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12943.22
Sample Tag: SB-81-45(2-4)_03232020
Collected Date/Time: 03/23/2020 15:30
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/01/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 14:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12943.23
Sample Tag: SB-10-71(4-6)_03232020
Collected Date/Time: 03/23/2020 13:25
Matrix: Soil
COC Reference: 119797

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/01/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	92	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 14:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12943.24
Sample Tag: SB-10-71(6-8)_03232020
Collected Date/Time: 03/23/2020 14:20
Matrix: Soil
COC Reference: 119797

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/01/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 14:53, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12943.25
Sample Tag: SB-10-71(8-10)_03232020
Collected Date/Time: 03/23/2020 14:25
Matrix: Soil
COC Reference: 119797

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/01/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 14:05, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S12943
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30043300.01904/Buick City
Submitted: 03/24/2020 13:00 Login User: BJB

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.7
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 5

123800

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki.Maki@Arcadis.com, Mary-Catherine.Goddard@Arcadis.com, Megan.Humphrey@Arcadis.com, Joey.Barker@Arcadis.com, Erin.Kozak@Arcadis.com
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr. St 500
CITY: Novi, MI STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.: 30043300.01904
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30043300.01904/Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Seth Turner / Seth Turner

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
12943.01	3/23/20	1210	SB-10-72(4-6)_032320	S	1	1							1
.02		1215	SB-10-72(6-8)_032320	S	1	1							1
.03		1220	SB-10-72(8-10)_032320	S	1	1							1
.04		1150	SB-10-66(4-6)_032320	S	1	1							1
.05		1155	SB-10-66(6-8)_032320	S	1	1							1
.06		1200	SB-10-66(8-10)_032320	S	1	1							1
.07		1045	SB-10-73(4-6)_032320	S	1	1							1
.08		1050	SB-10-73(6-8)_032320	S	1	1							1
.09		1055	SB-10-73(8-10)_032320	S	1	1							1
.10		945	SB-10-67(0-2)_032320	S	1	1							1
		1000	~~SB-10-67(6-8)_032320~~	~~S~~	~~1~~	~~1~~							
.11		925	SB-10-74(4-6)_032320	S	1	1							

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Seth Turner / Arcadis ☒ Sampler	DATE 3/23/20	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage / Arcadis	DATE 3/23/20	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Merit	DATE 3.24.20	TIME 1300
RECEIVED BY: SIGNATURE/ORGANIZATION	Barbie Bull	DATE 3/24/2020	TIME 1300

RELINQUISHED BY: SIGNATURE/ORGANIZATION	CHRISTINA WEAVER	DATE 3/24/20	TIME 945
RECEIVED BY: SIGNATURE/ORGANIZATION	MS	DATE 3.24.20	TIME 945

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 2 OF 3

123801

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME

COMPANY Arcadis

ADDRESS 28550 Cabot Dr. St 500

CITY Novi | STATE MI | ZIP CODE 48377

PHONE NO. | FAX NO. | P.O. NO. 30043300.01904

E-MAIL ADDRESS | QUOTE NO.

INVOICE TO

CONTACT NAME ☐ SAME

COMPANY

ADDRESS

CITY | STATE | ZIP CODE

PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME 30043300.01904 / Buick City

SAMPLER(S) - PLEASE PRINT/SIGN NAME Seth Turner / Seth Turner

TURNAROUND TIME REQUIRED ☐ 1 DAY ~~☐ 2 DAYS~~ ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	
12943.12	3/23/20	928	SB-10-74(6-8)_032320	S	1	1							1	
.13		930	SB-10-74(8-10)_032320	S	1	1							1	
.14		1512	SB-81-50(0-2)_032320	S	1	1							1	
.15		1515	SB-81-50(2-4)_032320	S	1	1							1	
.16		1615	SB-81-52(0-2)_032320	S	1	1							1	
		~~1620~~	~~SB-81-52(2-4)_032320~~	S	1	1							1	FB
.17		1630	SB-81-51(0-2)_032320	S	1	1							1	
.18		1635	SB-81-51(2-4)_032320	S	1	1							1	
.19		1540	SB-81-46(0-2)_032320	S	1	1							1	
.20		1545	SB-81-46(2-4)_032320	S	1	1							1	
.21		1528	SB-81-45(0-2)_032320	S	1	1							1	
.22		1530	SB-81-45(2-4)_032320	S	1	1							1	

RELINQUISHED BY: SIGNATURE/ORGANIZATION Seth Turner / Arcadis (☒ Sampler)	DATE 3/23/20	TIME 1830	
RECEIVED BY: SIGNATURE/ORGANIZATION Novi Cold Storage	DATE 3/23/20	TIME 1830	
RELINQUISHED BY: SIGNATURE/ORGANIZATION Merit	DATE 3.24.20	TIME 1300	
RECEIVED BY: SIGNATURE/ORGANIZATION Barbe Bull	DATE 3/24/2020	TIME 1300	

RELINQUISHED BY: SIGNATURE/ORGANIZATION CHRISTINA WEAVER	DATE 3/24/20	TIME 845	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 3/24/20	TIME 845	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 4.7
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

119797

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME

COMPANY Arcadis

ADDRESS 28550 Cabot Dr. St 500

CITY Novi STATE MI ZIP CODE 48377

PHONE NO. FAX NO. P.O. NO. 30043300.01904

E-MAIL ADDRESS QUOTE NO.

INVOICE TO

CONTACT NAME ☐ SAME

COMPANY

ADDRESS

CITY STATE ZIP CODE

PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME 30043300.01904 / Buick City

SAMPLER(S) - PLEASE PRINT/SIGN NAME Seth Turner

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
12943.23	3/23/20	1325	SB-10-71(4-6)_032320	S	1	1							1
.24		1420	SB-10-71(6-8)_032320	S	1	1							1
.25		1425	SB-10-71(8-10)_032320	S	1	1							1

RELINQUISHED BY: SIGNATURE/ORGANIZATION Seth Turner/Arcadis ☒ Sampler DATE 3/23/20 TIME 1830

RECEIVED BY: SIGNATURE/ORGANIZATION Novi cold storage/Arcadis DATE 3/23/20 TIME 1830

RELINQUISHED BY: SIGNATURE/ORGANIZATION Mext DATE 3.24.20 TIME 1300

RECEIVED BY: SIGNATURE/ORGANIZATION Barbe Ball DATE 3/24/2020 TIME 1300

RELINQUISHED BY: CHRISTINA WEAVER SIGNATURE/ORGANIZATION DATE 3/24/20 TIME 945

RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME 945

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S12943.01(01)
Generated on 04/02/2020

Report to

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Report Summary

Lab Sample ID(s): S12943.01-S12943.25
Project: 30043300.01904/Buick City
Collected Date(s): 03/23/2020
Submitted Date/Time: 03/24/2020 13:00
Sampled by: Seth Turner
P.O. #: 30043300

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (25 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S12943.01	SB-10-72(4-6)_03232020	Soil	03/23/20 12:10
S12943.02	SB-10-72(6-8)_03232020	Soil	03/23/20 12:15
S12943.03	SB-10-72(8-10)_03232020	Soil	03/23/20 12:20
S12943.04	SB-10-66(4-6)_03232020	Soil	03/23/20 11:50
S12943.05	SB-10-66(6-8)_03232020	Soil	03/23/20 11:55
S12943.06	SB-10-66(8-10)_03232020	Soil	03/23/20 12:00
S12943.07	SB-10-73(4-6)_03232020	Soil	03/23/20 10:45
S12943.08	SB-10-73(6-8)_03232020	Soil	03/23/20 10:50
S12943.09	SB-10-73(8-10)_03232020	Soil	03/23/20 10:55
S12943.10	SB-10-67(0-2)_03232020	Soil	03/23/20 09:45
S12943.11	SB-10-74(4-6)_03232020	Soil	03/23/20 09:25
S12943.12	SB-10-74(6-8)_03232020	Soil	03/23/20 09:28
S12943.13	SB-10-74(8-10)_03232020	Soil	03/23/20 09:30
S12943.14	SB-81-50(0-2)_03232020	Soil	03/23/20 15:12
S12943.15	SB-81-50(2-4)_03232020	Soil	03/23/20 15:15
S12943.16	SB-81-52(0-2)_03232020	Soil	03/23/20 16:15
S12943.17	SB-81-51(0-2)_03232020	Soil	03/23/20 16:30
S12943.18	SB-81-51(2-4)_03232020	Soil	03/23/20 16:35
S12943.19	SB-81-46(0-2)_03232020	Soil	03/23/20 15:40
S12943.20	SB-81-46(2-4)_03232020	Soil	03/23/20 15:45
S12943.21	SB-81-45(0-2)_03232020	Soil	03/23/20 15:28
S12943.22	SB-81-45(2-4)_03232020	Soil	03/23/20 15:30
S12943.23	SB-10-71(4-6)_03232020	Soil	03/23/20 13:25
S12943.24	SB-10-71(6-8)_03232020	Soil	03/23/20 14:20
S12943.25	SB-10-71(8-10)_03232020	Soil	03/23/20 14:25

Analytical Laboratory Report

Lab Sample ID: S12943.01
Sample Tag: SB-10-72(4-6)_03232020
Collected Date/Time: 03/23/2020 12:10
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 17:51, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.02
Sample Tag: SB-10-72(6-8)_03232020
Collected Date/Time: 03/23/2020 12:15
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 18:03, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.03
Sample Tag: SB-10-72(8-10)_03232020
Collected Date/Time: 03/23/2020 12:20
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 18:15, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12943.04
Sample Tag: SB-10-66(4-6)_03232020
Collected Date/Time: 03/23/2020 11:50
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 18:27, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.05
Sample Tag: SB-10-66(6-8)_03232020
Collected Date/Time: 03/23/2020 11:55
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 16:08, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12943.06
Sample Tag: SB-10-66(8-10)_03232020
Collected Date/Time: 03/23/2020 12:00
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 16:20, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12943.07
Sample Tag: SB-10-73(4-6)_03232020
Collected Date/Time: 03/23/2020 10:45
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	96	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:03, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.08
Sample Tag: SB-10-73(6-8)_03232020
Collected Date/Time: 03/23/2020 10:50
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:15, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.09
Sample Tag: SB-10-73(8-10)_03232020
Collected Date/Time: 03/23/2020 10:55
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/30/20 19:27, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.10
Sample Tag: SB-10-67(0-2)_03232020
Collected Date/Time: 03/23/2020 09:45
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/27/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	97	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 15:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12943.11
Sample Tag: SB-10-74(4-6)_03232020
Collected Date/Time: 03/23/2020 09:25
Matrix: Soil
COC Reference: 123800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 19:32, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.12
Sample Tag: SB-10-74(6-8)_03232020
Collected Date/Time: 03/23/2020 09:28
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 19:44, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.13
Sample Tag: SB-10-74(8-10)_03232020
Collected Date/Time: 03/23/2020 09:30
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 19:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12943.14
Sample Tag: SB-81-50(0-2)_03232020
Collected Date/Time: 03/23/2020 15:12
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 19:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	100	12674-11-2	
PCB-1242	Not detected	500		ug/kg	100	53469-21-9	
PCB-1221	Not detected	500		ug/kg	100	11104-28-2	
PCB-1232	Not detected	500		ug/kg	100	11141-16-5	
PCB-1248	Not detected	500		ug/kg	100	12672-29-6	
PCB-1254	1,000	500		ug/kg	100	11097-69-1	
PCB-1260	Not detected	500		ug/kg	100	11096-82-5	

Lab Sample ID: S12943.15
Sample Tag: SB-81-50(2-4)_03232020
Collected Date/Time: 03/23/2020 15:15
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 19:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	3	12674-11-2	
PCB-1242	Not detected	330		ug/kg	3	53469-21-9	
PCB-1221	Not detected	330		ug/kg	3	11104-28-2	
PCB-1232	Not detected	330		ug/kg	3	11141-16-5	
PCB-1248	Not detected	330		ug/kg	3	12672-29-6	
PCB-1254	Not detected	330		ug/kg	3	11097-69-1	
PCB-1260	Not detected	330		ug/kg	3	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12943.16
Sample Tag: SB-81-52(0-2)_03232020
Collected Date/Time: 03/23/2020 16:15
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	03/30/20 13:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/31/20 20:08, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.17
Sample Tag: SB-81-51(0-2)_03232020
Collected Date/Time: 03/23/2020 16:30
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/01/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 13:17, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12943.18
Sample Tag: SB-81-51(2-4)_03232020
Collected Date/Time: 03/23/2020 16:35
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/01/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 13:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12943.19
Sample Tag: SB-81-46(0-2)_03232020
Collected Date/Time: 03/23/2020 15:40
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/01/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	94	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 13:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12943.20
Sample Tag: SB-81-46(2-4)_03232020
Collected Date/Time: 03/23/2020 15:45
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/01/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 14:17, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S12943.21
Sample Tag: SB-81-45(0-2)_03232020
Collected Date/Time: 03/23/2020 15:28
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/01/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 13:53, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S12943.22
Sample Tag: SB-81-45(2-4)_03232020
Collected Date/Time: 03/23/2020 15:30
Matrix: Soil
COC Reference: 123801

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/01/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 14:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12943.23
Sample Tag: SB-10-71(4-6)_03232020
Collected Date/Time: 03/23/2020 13:25
Matrix: Soil
COC Reference: 119797

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/01/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	92	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 14:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12943.24
Sample Tag: SB-10-71(6-8)_03232020
Collected Date/Time: 03/23/2020 14:20
Matrix: Soil
COC Reference: 119797

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/01/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 14:53, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S12943.25
Sample Tag: SB-10-71(8-10)_03232020
Collected Date/Time: 03/23/2020 14:25
Matrix: Soil
COC Reference: 119797

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/01/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 03/26/20 11:13, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/02/20 14:05, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S12943
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30043300.01904/Buick City
Submitted: 03/24/2020 13:00 Login User: BJB

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.7
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 5

123800

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki.Maki@Arcadis.com, Mary-Catherine.Goddard@Arcadis.com, Megan.Humphrey@Arcadis.com, Joey.Barker@Arcadis.com, Erin.Kozak@Arcadis.com
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr. St 500
CITY: Novi, MI STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.: 30043300.01904
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30043300.01904/Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Seth Turner / Seth Turner

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
12943.01	3/23/20	1210	SB-10-72(4-6)_032320	S	1	1							1
.02		1215	SB-10-72(6-8)_032320	S	1	1							1
.03		1220	SB-10-72(8-10)_032320	S	1	1							1
.04		1150	SB-10-66(4-6)_032320	S	1	1							1
.05		1155	SB-10-66(6-8)_032320	S	1	1							1
.06		1200	SB-10-66(8-10)_032320	S	1	1							1
.07		1045	SB-10-73(4-6)_032320	S	1	1							1
.08		1050	SB-10-73(6-8)_032320	S	1	1							1
.09		1055	SB-10-73(8-10)_032320	S	1	1							1
.10		945	SB-10-67(0-2)_032320	S	1	1							1
		1000	~~SB-10-67(6-8)_032320~~	~~S~~	~~1~~	~~1~~							
.11		925	SB-10-74(4-6)_032320	S	1	1							

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Seth Turner / Arcadis ☒ Sampler	DATE 3/23/20	TIME 1830
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage / Arcadis	DATE 3/23/20	TIME 1830
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Merit	DATE 3.24.20	TIME 1300
RECEIVED BY: SIGNATURE/ORGANIZATION	Barbie Bull	DATE 3/24/2020	TIME 1300

RELINQUISHED BY: SIGNATURE/ORGANIZATION	CHRISTINA WEAVER	DATE 3/24/20	TIME 945
RECEIVED BY: SIGNATURE/ORGANIZATION	MS	DATE 3.24.20	TIME 945

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 2 OF 3

123801

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME

COMPANY Arcadis

ADDRESS 28550 Cabot Dr. St 500

CITY Novi | STATE MI | ZIP CODE 48377

PHONE NO. | FAX NO. | P.O. NO. 30043300.01904

E-MAIL ADDRESS | QUOTE NO.

INVOICE TO

CONTACT NAME ☐ SAME

COMPANY

ADDRESS

CITY | STATE | ZIP CODE

PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME 30043300.01904 / Buick City

SAMPLER(S) - PLEASE PRINT/SIGN NAME Seth Turner / Seth Turner

TURNAROUND TIME REQUIRED ☐ 1 DAY ~~☐ 2 DAYS~~ ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	
12943.12	3/23/20	928	SB-10-74(6-8)_032320	S	1	1							1	
.13		930	SB-10-74(8-10)_032320	S	1	1							1	
.14		1512	SB-81-50(0-2)_032320	S	1	1							1	
.15		1515	SB-81-50(2-4)_032320	S	1	1							1	
.16		1615	SB-81-52(0-2)_032320	S	1	1							1	
		~~1620~~	~~SB-81-52(2-4)_032320~~	S	1	1							1	FB
.17		1630	SB-81-51(0-2)_032320	S	1	1							1	
.18		1635	SB-81-51(2-4)_032320	S	1	1							1	
.19		1540	SB-81-46(0-2)_032320	S	1	1							1	
.20		1545	SB-81-46(2-4)_032320	S	1	1							1	
.21		1528	SB-81-45(0-2)_032320	S	1	1							1	
.22		1530	SB-81-45(2-4)_032320	S	1	1							1	

RELINQUISHED BY: SIGNATURE/ORGANIZATION Seth Turner / Arcadis (☒ Sampler)	DATE 3/23/20	TIME 1830	
RECEIVED BY: SIGNATURE/ORGANIZATION Novi Cold Storage	DATE 3/23/20	TIME 1830	
RELINQUISHED BY: SIGNATURE/ORGANIZATION Merit	DATE 3.24.20	TIME 1300	
RECEIVED BY: SIGNATURE/ORGANIZATION Barbe Bull	DATE 3/24/2020	TIME 1300	

RELINQUISHED BY: SIGNATURE/ORGANIZATION CHRISTINA WEAVER	DATE 3/24/20	TIME 845	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 3/24/20	TIME 845	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 4.7
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

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C.O.C. PAGE # 1 OF 2

119797

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME

COMPANY Arcadis

ADDRESS 28550 Cabot Dr. St 500

CITY Novi STATE MI ZIP CODE 48377

PHONE NO. FAX NO. P.O. NO. 30043300.01904

E-MAIL ADDRESS QUOTE NO.

INVOICE TO

CONTACT NAME ☐ SAME

COMPANY

ADDRESS

CITY STATE ZIP CODE

PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME 30043300.01904 / Buick City

SAMPLER(S) - PLEASE PRINT/SIGN NAME Seth Turner

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
12943.23	3/23/20	1325	SB-10-71(4-6)_032320	S	1	1							1
.24		1420	SB-10-71(6-8)_032320	S	1	1							1
.25		1425	SB-10-71(8-10)_032320	S	1	1							1

RELINQUISHED BY: SIGNATURE/ORGANIZATION Seth Turner/Arcadis ☒ Sampler DATE 3/23/20 TIME 1830

RECEIVED BY: SIGNATURE/ORGANIZATION Novi cold storage/Arcadis DATE 3/23/20 TIME 1830

RELINQUISHED BY: SIGNATURE/ORGANIZATION Mext DATE 3.24.20 TIME 1300

RECEIVED BY: SIGNATURE/ORGANIZATION Barbe Ball DATE 3/24/2020 TIME 1300

RELINQUISHED BY: CHRISTINA WEAVER SIGNATURE/ORGANIZATION DATE 3/24/20 TIME 945

RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME 945

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Revised Report

Report ID: S14903.01(04)
Generated on 01/05/2021

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Report produced by

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John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Megan Humphrey, Micki Maki, Joey Barker, Mary-Catherine Goddard, Chris Peters

Report Summary

Lab Sample ID(s): S14903.01-S14903.36
Project: Buick City - RC Delineation
Collected Date(s): 06/15/2020 - 06/16/2020
Submitted Date/Time: 06/17/2020 08:15
Sampled by: Ellen Redner
P.O. #: 30043300

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Report Narrative

Sample .29 tag changed per client request.

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW1311	SW 846 Method 1311 Revision 0 July 1992
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW5035A	SW 846 Method 5035A Revision 1 July 2002
SW5035A/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5035A Revision 1 July 2002
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (36 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S14903.01	SB-84-21(1-3)_061520	Soil	06/15/20 09:00
S14903.02	SB-84-21(3-5)_061520	Soil	06/15/20 09:20
S14903.03	SB-84-22(1-3)_061520	Soil	06/15/20 09:45
S14903.04	SB-84-22(3-5)_061520	Soil	06/15/20 09:50
S14903.05	SB-84-20(1-3)_061520	Soil	06/15/20 10:15
S14903.06	SB-84-20(3-5)_061520	Soil	06/15/20 10:20
S14903.07	SB-84-23(1-3)_061520	Soil	06/15/20 10:50
S14903.08	SB-84-23(3-5)_061520	Soil	06/15/20 10:55
S14903.09	SB-81-53(1-3)_061520	Soil	06/15/20 11:55
S14903.10	SB-81-53(3-5)_061520	Soil	06/15/20 12:00
S14903.11	SB-81-54(1-3)_061520	Soil	06/15/20 12:30
S14903.12	SB-81-54(3-5)_061520	Soil	06/15/20 12:35
S14903.13	SB-10-81(1.5-3)_061520	Soil	06/15/20 13:30
S14903.14	SB-10-81(3-5)_061520	Soil	06/15/20 13:35
S14903.15	SB-10-82(1-3)_061520	Soil	06/15/20 13:55
S14903.16	SB-10-82(3.5-5)_061520	Soil	06/15/20 14:00
S14903.17	SB-10-80(1-3)_061520	Soil	06/15/20 14:20
S14903.18	SB-10-80(3-5)_061520	Soil	06/15/20 14:25
S14903.19	RFI-83/84-16R(2.8-4.8)_061620	Soil	06/16/20 09:30
S14903.20	RFI-83/84-35R(1-3)_061620	Soil	06/16/20 08:50
S14903.21	RFI-83/84-17R2(1-3)_061620	Soil	06/16/20 09:50
S14903.22	RFI-83/84-05R(1-3)_061620	Soil	06/16/20 10:10
S14903.23	RFI-83/84-05R(3-5)_061620	Soil	06/16/20 10:15
S14903.24	SB-83/84-54(1-2)_061620	Soil	06/16/20 11:10
S14903.25	SB-83/84-54(2-4)_061620	Soil	06/16/20 11:15
S14903.26	SB-83/84-04R(1-2)_061620	Soil	06/16/20 11:40
S14903.27	SB-83/84-04R(2-4)_061620	Soil	06/16/20 11:45
S14903.28	SB-83/84-04R(4-6)_061620	Soil	06/16/20 11:50
S14903.29	SB-83/84-04R(6.2-8)_061620	Soil	06/16/20 11:55
S14903.30	SB-83/84-04R(8-10)_061620	Soil	06/16/20 12:00
S14903.31	SB-83/84-53(2.5-4)_061620	Soil	06/16/20 13:10
S14903.32	SB-83/84-53(4-6)_061620	Soil	06/16/20 13:15
S14903.33	SB-83/84-37R(2.5-5)_061620	Soil	06/16/20 13:50
S14903.34	SB-83/84-51(1-3)_061620	Soil	06/16/20 14:30
S14903.35	SB-83/84-51(3-5)_061620	Soil	06/16/20 14:35
S14903.36	SB-83/84-51(5-7)_061620	Soil	06/16/20 14:40

Lab Sample ID: S14903.01
Sample Tag: SB-84-21(1-3)_061520
Collected Date/Time: 06/15/2020 09:00
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10.235/10	SW5035A	06/18/20 11:50	JML	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	96	1		%	1			

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/18/20 21:37, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	200		ug/kg	53	60-29-7		
Acetone	Not detected	1,000		ug/kg	53	67-64-1		
Methyl iodide	Not detected	100		ug/kg	53	74-88-4		
Carbon disulfide	Not detected	300		ug/kg	53	75-15-0		
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	53	1634-04-4		
Acrylonitrile	Not detected	100		ug/kg	53	107-13-1		
2-Butanone (MEK)	Not detected	800		ug/kg	53	78-93-3		
Dichlorodifluoromethane	Not detected	300		ug/kg	53	75-71-8		
Chloromethane	Not detected	300		ug/kg	53	74-87-3		
Vinyl chloride	Not detected	50		ug/kg	53	75-01-4		
Bromomethane	Not detected	200		ug/kg	53	74-83-9		
Chloroethane	Not detected	300		ug/kg	53	75-00-3		
Trichlorofluoromethane	Not detected	100		ug/kg	53	75-69-4		
1,1-Dichloroethene	Not detected	50		ug/kg	53	75-35-4		
Methylene chloride	Not detected	100		ug/kg	53	75-09-2		
trans-1,2-Dichloroethene	Not detected	50		ug/kg	53	156-60-5		
1,1-Dichloroethane	Not detected	50		ug/kg	53	75-34-3		
cis-1,2-Dichloroethene	Not detected	50		ug/kg	53	156-59-2		
Tetrahydrofuran*	Not detected	1,000		ug/kg	53	109-99-9		
Chloroform	Not detected	50		ug/kg	53	67-66-3		
Bromochloromethane	Not detected	100		ug/kg	53	74-97-5		
1,1,1-Trichloroethane	Not detected	50		ug/kg	53	71-55-6		
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	53	108-10-1		
2-Hexanone	Not detected	3,000		ug/kg	53	591-78-6		
Carbon tetrachloride	Not detected	50		ug/kg	53	56-23-5		
Benzene	Not detected	50		ug/kg	53	71-43-2		
1,2-Dichloroethane	Not detected	50		ug/kg	53	107-06-2		
Trichloroethene	3,990	50		ug/kg	53	79-01-6		
1,2-Dichloropropane	Not detected	50		ug/kg	53	78-87-5		
Bromodichloromethane	Not detected	100		ug/kg	53	75-27-4		
Dibromomethane	Not detected	300		ug/kg	53	74-95-3		

Lab Sample ID: S14903.01 (continued)
Sample Tag: SB-84-21(1-3)_061520

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/18/20 21:37, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
cis-1,3-Dichloropropene	Not detected	50		ug/kg	53	10061-01-5		
Toluene	70	50		ug/kg	53	108-88-3		
trans-1,3-Dichloropropene	Not detected	50		ug/kg	53	10061-02-6		
1,1,2-Trichloroethane	Not detected	50		ug/kg	53	79-00-5		
Tetrachloroethene	Not detected	50		ug/kg	53	127-18-4		
trans-1,4-Dichloro-2-butene	Not detected	50		ug/kg	53	110-57-6		
Dibromochloromethane	Not detected	100		ug/kg	53	124-48-1		
1,2-Dibromoethane	Not detected	20		ug/kg	53	106-93-4	M	
Chlorobenzene	Not detected	50		ug/kg	53	108-90-7		
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	53	630-20-6		
Ethylbenzene	Not detected	50		ug/kg	53	100-41-4		
p,m-Xylene	100	100		ug/kg	53			
o-Xylene	70	50		ug/kg	53	95-47-6		
Styrene	Not detected	50		ug/kg	53	100-42-5		
Isopropylbenzene	Not detected	300		ug/kg	53	98-82-8		
Bromoform	Not detected	100		ug/kg	53	75-25-2		
1,1,2,2-Tetrachloroethane	Not detected	50		ug/kg	53	79-34-5		
1,2,3-Trichloropropane	Not detected	100		ug/kg	53	96-18-4		
n-Propylbenzene	Not detected	50		ug/kg	53	103-65-1		
Bromobenzene	Not detected	100		ug/kg	53	108-86-1		
1,3,5-Trimethylbenzene	Not detected	50		ug/kg	53	108-67-8		
tert-Butylbenzene	Not detected	50		ug/kg	53	98-06-6		
1,2,4-Trimethylbenzene	Not detected	50		ug/kg	53	95-63-6		
sec-Butylbenzene	Not detected	50		ug/kg	53	135-98-8		
p-Isopropyltoluene	Not detected	100		ug/kg	53	99-87-6		
1,3-Dichlorobenzene	Not detected	100		ug/kg	53	541-73-1		
1,4-Dichlorobenzene	Not detected	100		ug/kg	53	106-46-7		
1,2-Dichlorobenzene	Not detected	100		ug/kg	53	95-50-1		
1,2,3-Trimethylbenzene	Not detected	50		ug/kg	53	526-73-8		
n-Butylbenzene	Not detected	50		ug/kg	53	104-51-8		
Hexachloroethane	Not detected	300		ug/kg	53	67-72-1		
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	53	96-12-8		
1,2,4-Trichlorobenzene	Not detected	350		ug/kg	53	120-82-1		
1,2,3-Trichlorobenzene	Not detected	350		ug/kg	53	87-61-6		
Naphthalene	300	300		ug/kg	53	91-20-3		
2-Methylnaphthalene	200	100		ug/kg	53	91-57-6		

M-Result reported to MDL not RDL

Lab Sample ID: S14903.02
Sample Tag: SB-84-21(3-5)_061520
Collected Date/Time: 06/15/2020 09:20
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10.792/10	SW5035A	06/18/20 11:50	JML	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/18/20 21:57, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	200		ug/kg	59.5	60-29-7		
Acetone	Not detected	1,000		ug/kg	59.5	67-64-1		
Methyl iodide	Not detected	100		ug/kg	59.5	74-88-4		
Carbon disulfide	Not detected	300		ug/kg	59.5	75-15-0		
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	59.5	1634-04-4		
Acrylonitrile	Not detected	100		ug/kg	59.5	107-13-1		
2-Butanone (MEK)	Not detected	890		ug/kg	59.5	78-93-3		
Dichlorodifluoromethane	Not detected	300		ug/kg	59.5	75-71-8		
Chloromethane	Not detected	300		ug/kg	59.5	74-87-3		
Vinyl chloride	Not detected	60		ug/kg	59.5	75-01-4		
Bromomethane	Not detected	200		ug/kg	59.5	74-83-9		
Chloroethane	Not detected	300		ug/kg	59.5	75-00-3		
Trichlorofluoromethane	Not detected	100		ug/kg	59.5	75-69-4		
1,1-Dichloroethene	Not detected	60		ug/kg	59.5	75-35-4		
Methylene chloride	Not detected	100		ug/kg	59.5	75-09-2		
trans-1,2-Dichloroethene	Not detected	60		ug/kg	59.5	156-60-5		
1,1-Dichloroethane	Not detected	60		ug/kg	59.5	75-34-3		
cis-1,2-Dichloroethene	Not detected	60		ug/kg	59.5	156-59-2		
Tetrahydrofuran*	Not detected	1,000		ug/kg	59.5	109-99-9		
Chloroform	Not detected	60		ug/kg	59.5	67-66-3		
Bromochloromethane	Not detected	100		ug/kg	59.5	74-97-5		
1,1,1-Trichloroethane	Not detected	60		ug/kg	59.5	71-55-6		
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	59.5	108-10-1		
2-Hexanone	Not detected	3,000		ug/kg	59.5	591-78-6		
Carbon tetrachloride	Not detected	60		ug/kg	59.5	56-23-5		
Benzene	Not detected	60		ug/kg	59.5	71-43-2		
1,2-Dichloroethane	Not detected	60		ug/kg	59.5	107-06-2		
Trichloroethene	3,530	60		ug/kg	59.5	79-01-6		
1,2-Dichloropropane	Not detected	60		ug/kg	59.5	78-87-5		
Bromodichloromethane	Not detected	100		ug/kg	59.5	75-27-4		
Dibromomethane	Not detected	300		ug/kg	59.5	74-95-3		

Lab Sample ID: S14903.02 (continued)
Sample Tag: SB-84-21(3-5)_061520

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/18/20 21:57, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
cis-1,3-Dichloropropene	Not detected	60		ug/kg	59.5	10061-01-5		
Toluene	Not detected	60		ug/kg	59.5	108-88-3		
trans-1,3-Dichloropropene	Not detected	60		ug/kg	59.5	10061-02-6		
1,1,2-Trichloroethane	Not detected	60		ug/kg	59.5	79-00-5		
Tetrachloroethene	Not detected	60		ug/kg	59.5	127-18-4		
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	59.5	110-57-6		
Dibromochloromethane	Not detected	100		ug/kg	59.5	124-48-1		
1,2-Dibromoethane	Not detected	20		ug/kg	59.5	106-93-4	M	
Chlorobenzene	Not detected	60		ug/kg	59.5	108-90-7		
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	59.5	630-20-6		
Ethylbenzene	Not detected	60		ug/kg	59.5	100-41-4		
p,m-Xylene	Not detected	100		ug/kg	59.5			
o-Xylene	Not detected	60		ug/kg	59.5	95-47-6		
Styrene	Not detected	60		ug/kg	59.5	100-42-5		
Isopropylbenzene	Not detected	300		ug/kg	59.5	98-82-8		
Bromoform	Not detected	100		ug/kg	59.5	75-25-2		
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	59.5	79-34-5		
1,2,3-Trichloropropane	Not detected	100		ug/kg	59.5	96-18-4		
n-Propylbenzene	Not detected	60		ug/kg	59.5	103-65-1		
Bromobenzene	Not detected	100		ug/kg	59.5	108-86-1		
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	59.5	108-67-8		
tert-Butylbenzene	Not detected	60		ug/kg	59.5	98-06-6		
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	59.5	95-63-6		
sec-Butylbenzene	Not detected	60		ug/kg	59.5	135-98-8		
p-Isopropyltoluene	Not detected	100		ug/kg	59.5	99-87-6		
1,3-Dichlorobenzene	Not detected	100		ug/kg	59.5	541-73-1		
1,4-Dichlorobenzene	Not detected	100		ug/kg	59.5	106-46-7		
1,2-Dichlorobenzene	Not detected	100		ug/kg	59.5	95-50-1		
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	59.5	526-73-8		
n-Butylbenzene	Not detected	60		ug/kg	59.5	104-51-8		
Hexachloroethane	Not detected	400		ug/kg	59.5	67-72-1		
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	59.5	96-12-8		
1,2,4-Trichlorobenzene	Not detected	390		ug/kg	59.5	120-82-1		
1,2,3-Trichlorobenzene	Not detected	390		ug/kg	59.5	87-61-6		
Naphthalene	500	300		ug/kg	59.5	91-20-3		
2-Methylnaphthalene	200	100		ug/kg	59.5	91-57-6		

M-Result reported to MDL not RDL

Lab Sample ID: S14903.03
Sample Tag: SB-84-22(1-3)_061520
Collected Date/Time: 06/15/2020 09:45
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10.616/10	SW5035A	06/18/20 11:50	JML	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	96	1		%	1			

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/18/20 22:17, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	200		ug/kg	51.1	60-29-7		
Acetone	Not detected	1,000		ug/kg	51.1	67-64-1		
Methyl iodide	Not detected	100		ug/kg	51.1	74-88-4		
Carbon disulfide	Not detected	300		ug/kg	51.1	75-15-0		
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	51.1	1634-04-4		
Acrylonitrile	Not detected	100		ug/kg	51.1	107-13-1		
2-Butanone (MEK)	Not detected	770		ug/kg	51.1	78-93-3		
Dichlorodifluoromethane	Not detected	300		ug/kg	51.1	75-71-8		
Chloromethane	Not detected	300		ug/kg	51.1	74-87-3		
Vinyl chloride	Not detected	50		ug/kg	51.1	75-01-4		
Bromomethane	Not detected	200		ug/kg	51.1	74-83-9		
Chloroethane	Not detected	300		ug/kg	51.1	75-00-3		
Trichlorofluoromethane	Not detected	100		ug/kg	51.1	75-69-4		
1,1-Dichloroethene	Not detected	50		ug/kg	51.1	75-35-4		
Methylene chloride	Not detected	100		ug/kg	51.1	75-09-2		
trans-1,2-Dichloroethene	Not detected	50		ug/kg	51.1	156-60-5		
1,1-Dichloroethane	Not detected	50		ug/kg	51.1	75-34-3		
cis-1,2-Dichloroethene	70	50		ug/kg	51.1	156-59-2		
Tetrahydrofuran*	Not detected	1,000		ug/kg	51.1	109-99-9		
Chloroform	Not detected	50		ug/kg	51.1	67-66-3		
Bromochloromethane	Not detected	100		ug/kg	51.1	74-97-5		
1,1,1-Trichloroethane	Not detected	50		ug/kg	51.1	71-55-6		
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	51.1	108-10-1		
2-Hexanone	Not detected	3,000		ug/kg	51.1	591-78-6		
Carbon tetrachloride	Not detected	50		ug/kg	51.1	56-23-5		
Benzene	Not detected	50		ug/kg	51.1	71-43-2		
1,2-Dichloroethane	Not detected	50		ug/kg	51.1	107-06-2		
Trichloroethene	6,840	50		ug/kg	51.1	79-01-6		
1,2-Dichloropropane	Not detected	50		ug/kg	51.1	78-87-5		
Bromodichloromethane	Not detected	100		ug/kg	51.1	75-27-4		
Dibromomethane	Not detected	300		ug/kg	51.1	74-95-3		

Lab Sample ID: S14903.03 (continued)
Sample Tag: SB-84-22(1-3)_061520

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/18/20 22:17, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
cis-1,3-Dichloropropene	Not detected	50		ug/kg	51.1	10061-01-5		
Toluene	Not detected	50		ug/kg	51.1	108-88-3		
trans-1,3-Dichloropropene	Not detected	50		ug/kg	51.1	10061-02-6		
1,1,2-Trichloroethane	Not detected	50		ug/kg	51.1	79-00-5		
Tetrachloroethene	Not detected	50		ug/kg	51.1	127-18-4		
trans-1,4-Dichloro-2-butene	Not detected	50		ug/kg	51.1	110-57-6		
Dibromochloromethane	Not detected	100		ug/kg	51.1	124-48-1		
1,2-Dibromoethane	Not detected	20		ug/kg	51.1	106-93-4	M	
Chlorobenzene	Not detected	50		ug/kg	51.1	108-90-7		
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	51.1	630-20-6		
Ethylbenzene	Not detected	50		ug/kg	51.1	100-41-4		
p,m-Xylene	Not detected	100		ug/kg	51.1			
o-Xylene	Not detected	50		ug/kg	51.1	95-47-6		
Styrene	Not detected	50		ug/kg	51.1	100-42-5		
Isopropylbenzene	Not detected	300		ug/kg	51.1	98-82-8		
Bromoform	Not detected	100		ug/kg	51.1	75-25-2		
1,1,2,2-Tetrachloroethane	Not detected	50		ug/kg	51.1	79-34-5		
1,2,3-Trichloropropane	Not detected	100		ug/kg	51.1	96-18-4		
n-Propylbenzene	Not detected	50		ug/kg	51.1	103-65-1		
Bromobenzene	Not detected	100		ug/kg	51.1	108-86-1		
1,3,5-Trimethylbenzene	Not detected	50		ug/kg	51.1	108-67-8		
tert-Butylbenzene	Not detected	50		ug/kg	51.1	98-06-6		
1,2,4-Trimethylbenzene	Not detected	50		ug/kg	51.1	95-63-6		
sec-Butylbenzene	Not detected	50		ug/kg	51.1	135-98-8		
p-Isopropyltoluene	Not detected	100		ug/kg	51.1	99-87-6		
1,3-Dichlorobenzene	Not detected	100		ug/kg	51.1	541-73-1		
1,4-Dichlorobenzene	Not detected	100		ug/kg	51.1	106-46-7		
1,2-Dichlorobenzene	Not detected	100		ug/kg	51.1	95-50-1		
1,2,3-Trimethylbenzene	Not detected	50		ug/kg	51.1	526-73-8		
n-Butylbenzene	Not detected	50		ug/kg	51.1	104-51-8		
Hexachloroethane	Not detected	300		ug/kg	51.1	67-72-1		
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	51.1	96-12-8		
1,2,4-Trichlorobenzene	Not detected	340		ug/kg	51.1	120-82-1		
1,2,3-Trichlorobenzene	Not detected	340		ug/kg	51.1	87-61-6		
Naphthalene	Not detected	300		ug/kg	51.1	91-20-3		
2-Methylnaphthalene	Not detected	100		ug/kg	51.1	91-57-6		

M-Result reported to MDL not RDL

Lab Sample ID: S14903.04
Sample Tag: SB-84-22(3-5)_061520
Collected Date/Time: 06/15/2020 09:50
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10.547/10	SW5035A	06/18/20 11:50	JML	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	95	1		%	1			

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/22/20 22:00, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	2,000		ug/kg	525	60-29-7	Y	
Acetone	Not detected	10,000		ug/kg	525	67-64-1	Y	
Methyl iodide	Not detected	1,000		ug/kg	525	74-88-4	Y	
Carbon disulfide	Not detected	3,000		ug/kg	525	75-15-0	Y	
tert-Methyl butyl ether (MTBE)	Not detected	2,000		ug/kg	525	1634-04-4	Y	
Acrylonitrile	Not detected	1,000		ug/kg	525	107-13-1	Y	
2-Butanone (MEK)	Not detected	7,900		ug/kg	525	78-93-3	Y	
Dichlorodifluoromethane	Not detected	3,000		ug/kg	525	75-71-8	Y	
Chloromethane	Not detected	3,000		ug/kg	525	74-87-3	Y	
Vinyl chloride	Not detected	500		ug/kg	525	75-01-4	Y	
Bromomethane	Not detected	2,000		ug/kg	525	74-83-9	Y	
Chloroethane	Not detected	3,000		ug/kg	525	75-00-3	Y	
Trichlorofluoromethane	Not detected	1,000		ug/kg	525	75-69-4	Y	
1,1-Dichloroethene	Not detected	500		ug/kg	525	75-35-4	Y	
Methylene chloride	Not detected	1,000		ug/kg	525	75-09-2	Y	
trans-1,2-Dichloroethene	Not detected	500		ug/kg	525	156-60-5	Y	
1,1-Dichloroethane	Not detected	500		ug/kg	525	75-34-3	Y	
cis-1,2-Dichloroethene	800	500		ug/kg	525	156-59-2	Y	
Tetrahydrofuran*	Not detected	10,000		ug/kg	525	109-99-9	Y	
Chloroform	Not detected	500		ug/kg	525	67-66-3	Y	
Bromochloromethane	Not detected	1,000		ug/kg	525	74-97-5	Y	
1,1,1-Trichloroethane	Not detected	500		ug/kg	525	71-55-6	Y	
4-Methyl-2-pentanone (MIBK)	Not detected	30,000		ug/kg	525	108-10-1	Y	
2-Hexanone	Not detected	30,000		ug/kg	525	591-78-6	Y	
Carbon tetrachloride	Not detected	500		ug/kg	525	56-23-5	Y	
Benzene	Not detected	500		ug/kg	525	71-43-2	Y	
1,2-Dichloroethane	Not detected	500		ug/kg	525	107-06-2	Y	
Trichloroethene	60,600	500		ug/kg	525	79-01-6	Y	
1,2-Dichloropropane	Not detected	500		ug/kg	525	78-87-5	Y	
Bromodichloromethane	Not detected	1,000		ug/kg	525	75-27-4	Y	

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S14903.04 (continued)

Sample Tag: SB-84-22(3-5)_061520

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/22/20 22:00, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Dibromomethane	Not detected	3,000		ug/kg	525	74-95-3	Y	
cis-1,3-Dichloropropene	Not detected	500		ug/kg	525	10061-01-5	Y	
Toluene	Not detected	500		ug/kg	525	108-88-3	Y	
trans-1,3-Dichloropropene	Not detected	500		ug/kg	525	10061-02-6	Y	
1,1,2-Trichloroethane	Not detected	500		ug/kg	525	79-00-5	Y	
Tetrachloroethene	Not detected	500		ug/kg	525	127-18-4	Y	
trans-1,4-Dichloro-2-butene	Not detected	500		ug/kg	525	110-57-6	Y	
Dibromochloromethane	Not detected	1,000		ug/kg	525	124-48-1	Y	
1,2-Dibromoethane	Not detected	200		ug/kg	525	106-93-4	MY	
Chlorobenzene	Not detected	500		ug/kg	525	108-90-7	Y	
1,1,1,2-Tetrachloroethane	Not detected	1,000		ug/kg	525	630-20-6	Y	
Ethylbenzene	Not detected	500		ug/kg	525	100-41-4	Y	
p,m-Xylene	Not detected	1,000		ug/kg	525		Y	
o-Xylene	Not detected	500		ug/kg	525	95-47-6	Y	
Styrene	Not detected	500		ug/kg	525	100-42-5	Y	
Isopropylbenzene	Not detected	3,000		ug/kg	525	98-82-8	Y	
Bromoform	Not detected	1,000		ug/kg	525	75-25-2	Y	
1,1,2,2-Tetrachloroethane	Not detected	500		ug/kg	525	79-34-5	Y	
1,2,3-Trichloropropane	Not detected	1,000		ug/kg	525	96-18-4	Y	
n-Propylbenzene	Not detected	500		ug/kg	525	103-65-1	Y	
Bromobenzene	Not detected	1,000		ug/kg	525	108-86-1	Y	
1,3,5-Trimethylbenzene	Not detected	500		ug/kg	525	108-67-8	Y	
tert-Butylbenzene	Not detected	500		ug/kg	525	98-06-6	Y	
1,2,4-Trimethylbenzene	Not detected	500		ug/kg	525	95-63-6	Y	
sec-Butylbenzene	Not detected	500		ug/kg	525	135-98-8	Y	
p-Isopropyltoluene	Not detected	1,000		ug/kg	525	99-87-6	Y	
1,3-Dichlorobenzene	Not detected	1,000		ug/kg	525	541-73-1	Y	
1,4-Dichlorobenzene	Not detected	1,000		ug/kg	525	106-46-7	Y	
1,2-Dichlorobenzene	Not detected	1,000		ug/kg	525	95-50-1	Y	
1,2,3-Trimethylbenzene	Not detected	500		ug/kg	525	526-73-8	Y	
n-Butylbenzene	Not detected	500		ug/kg	525	104-51-8	Y	
Hexachloroethane	Not detected	3,000		ug/kg	525	67-72-1	Y	
1,2-Dibromo-3-chloropropane	Not detected	3,000		ug/kg	525	96-12-8	Y	
1,2,4-Trichlorobenzene	Not detected	3,500		ug/kg	525	120-82-1	Y	
1,2,3-Trichlorobenzene	Not detected	3,500		ug/kg	525	87-61-6	Y	
Naphthalene	Not detected	3,000		ug/kg	525	91-20-3	Y	
2-Methylnaphthalene	Not detected	1,000		ug/kg	525	91-57-6	Y	

Y-Elevated reporting limit due to high target concentration

M-Result reported to MDL not RDL

Lab Sample ID: S14903.05
Sample Tag: SB-84-20(1-3)_061520
Collected Date/Time: 06/15/2020 10:15
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	7.819/10	SW5035A	06/18/20 11:50	JML	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	98	1		%	1			

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 21:29, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	300		ug/kg	66.3	60-29-7		
Acetone	Not detected	1,000		ug/kg	66.3	67-64-1		
Methyl iodide	Not detected	100		ug/kg	66.3	74-88-4		
Carbon disulfide	Not detected	300		ug/kg	66.3	75-15-0		
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	66.3	1634-04-4		
Acrylonitrile	Not detected	100		ug/kg	66.3	107-13-1		
2-Butanone (MEK)	Not detected	990		ug/kg	66.3	78-93-3		
Dichlorodifluoromethane	Not detected	300		ug/kg	66.3	75-71-8		
Chloromethane	Not detected	300		ug/kg	66.3	74-87-3		
Vinyl chloride	Not detected	70		ug/kg	66.3	75-01-4		
Bromomethane	Not detected	300		ug/kg	66.3	74-83-9		
Chloroethane	Not detected	300		ug/kg	66.3	75-00-3		
Trichlorofluoromethane	Not detected	100		ug/kg	66.3	75-69-4		
1,1-Dichloroethene	Not detected	70		ug/kg	66.3	75-35-4		
Methylene chloride	Not detected	100		ug/kg	66.3	75-09-2		
trans-1,2-Dichloroethene	Not detected	70		ug/kg	66.3	156-60-5		
1,1-Dichloroethane	Not detected	70		ug/kg	66.3	75-34-3		
cis-1,2-Dichloroethene	Not detected	70		ug/kg	66.3	156-59-2		
Tetrahydrofuran*	Not detected	1,000		ug/kg	66.3	109-99-9		
Chloroform	Not detected	70		ug/kg	66.3	67-66-3		
Bromochloromethane	Not detected	100		ug/kg	66.3	74-97-5		
1,1,1-Trichloroethane	Not detected	70		ug/kg	66.3	71-55-6		
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	66.3	108-10-1		
2-Hexanone	Not detected	3,000		ug/kg	66.3	591-78-6		
Carbon tetrachloride	Not detected	70		ug/kg	66.3	56-23-5		
Benzene	Not detected	70		ug/kg	66.3	71-43-2		
1,2-Dichloroethane	Not detected	70		ug/kg	66.3	107-06-2		
Trichloroethene	2,920	70		ug/kg	66.3	79-01-6		
1,2-Dichloropropane	Not detected	70		ug/kg	66.3	78-87-5		
Bromodichloromethane	Not detected	100		ug/kg	66.3	75-27-4		
Dibromomethane	Not detected	300		ug/kg	66.3	74-95-3		

Lab Sample ID: S14903.05 (continued)
Sample Tag: SB-84-20(1-3)_061520

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 21:29, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
cis-1,3-Dichloropropene	Not detected	70		ug/kg	66.3	10061-01-5		
Toluene	Not detected	70		ug/kg	66.3	108-88-3		
trans-1,3-Dichloropropene	Not detected	70		ug/kg	66.3	10061-02-6		
1,1,2-Trichloroethane	Not detected	70		ug/kg	66.3	79-00-5		
Tetrachloroethene	Not detected	70		ug/kg	66.3	127-18-4		
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	66.3	110-57-6		
Dibromochloromethane	Not detected	100		ug/kg	66.3	124-48-1		
1,2-Dibromoethane	Not detected	30		ug/kg	66.3	106-93-4	M	
Chlorobenzene	Not detected	70		ug/kg	66.3	108-90-7		
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	66.3	630-20-6		
Ethylbenzene	Not detected	70		ug/kg	66.3	100-41-4		
p,m-Xylene	Not detected	100		ug/kg	66.3			
o-Xylene	Not detected	70		ug/kg	66.3	95-47-6		
Styrene	Not detected	70		ug/kg	66.3	100-42-5		
Isopropylbenzene	Not detected	300		ug/kg	66.3	98-82-8		
Bromoform	Not detected	100		ug/kg	66.3	75-25-2		
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	66.3	79-34-5		
1,2,3-Trichloropropane	Not detected	100		ug/kg	66.3	96-18-4		
n-Propylbenzene	Not detected	70		ug/kg	66.3	103-65-1		
Bromobenzene	Not detected	100		ug/kg	66.3	108-86-1		
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	66.3	108-67-8		
tert-Butylbenzene	Not detected	70		ug/kg	66.3	98-06-6		
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	66.3	95-63-6		
sec-Butylbenzene	Not detected	70		ug/kg	66.3	135-98-8		
p-Isopropyltoluene	Not detected	100		ug/kg	66.3	99-87-6		
1,3-Dichlorobenzene	Not detected	100		ug/kg	66.3	541-73-1		
1,4-Dichlorobenzene	Not detected	100		ug/kg	66.3	106-46-7		
1,2-Dichlorobenzene	Not detected	100		ug/kg	66.3	95-50-1		
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	66.3	526-73-8		
n-Butylbenzene	Not detected	70		ug/kg	66.3	104-51-8		
Hexachloroethane	Not detected	400		ug/kg	66.3	67-72-1		
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	66.3	96-12-8		
1,2,4-Trichlorobenzene	Not detected	440		ug/kg	66.3	120-82-1		
1,2,3-Trichlorobenzene	Not detected	440		ug/kg	66.3	87-61-6		
Naphthalene	Not detected	300		ug/kg	66.3	91-20-3		
2-Methylnaphthalene	Not detected	100		ug/kg	66.3	91-57-6		

M-Result reported to MDL not RDL

Lab Sample ID: S14903.06
Sample Tag: SB-84-20(3-5)_061520
Collected Date/Time: 06/15/2020 10:20
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	8.093/10	SW5035A	06/18/20 11:50	JML	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	97	1		%	1			

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 21:49, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	300		ug/kg	65.2	60-29-7		
Acetone	Not detected	1,000		ug/kg	65.2	67-64-1		
Methyl iodide	Not detected	100		ug/kg	65.2	74-88-4		
Carbon disulfide	Not detected	300		ug/kg	65.2	75-15-0		
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	65.2	1634-04-4		
Acrylonitrile	Not detected	100		ug/kg	65.2	107-13-1		
2-Butanone (MEK)	Not detected	980		ug/kg	65.2	78-93-3		
Dichlorodifluoromethane	Not detected	300		ug/kg	65.2	75-71-8		
Chloromethane	Not detected	300		ug/kg	65.2	74-87-3		
Vinyl chloride	Not detected	70		ug/kg	65.2	75-01-4		
Bromomethane	Not detected	300		ug/kg	65.2	74-83-9		
Chloroethane	Not detected	300		ug/kg	65.2	75-00-3		
Trichlorofluoromethane	Not detected	100		ug/kg	65.2	75-69-4		
1,1-Dichloroethene	Not detected	70		ug/kg	65.2	75-35-4		
Methylene chloride	Not detected	100		ug/kg	65.2	75-09-2		
trans-1,2-Dichloroethene	Not detected	70		ug/kg	65.2	156-60-5		
1,1-Dichloroethane	Not detected	70		ug/kg	65.2	75-34-3		
cis-1,2-Dichloroethene	Not detected	70		ug/kg	65.2	156-59-2		
Tetrahydrofuran*	Not detected	1,000		ug/kg	65.2	109-99-9		
Chloroform	Not detected	70		ug/kg	65.2	67-66-3		
Bromochloromethane	Not detected	100		ug/kg	65.2	74-97-5		
1,1,1-Trichloroethane	Not detected	70		ug/kg	65.2	71-55-6		
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	65.2	108-10-1		
2-Hexanone	Not detected	3,000		ug/kg	65.2	591-78-6		
Carbon tetrachloride	Not detected	70		ug/kg	65.2	56-23-5		
Benzene	Not detected	70		ug/kg	65.2	71-43-2		
1,2-Dichloroethane	Not detected	70		ug/kg	65.2	107-06-2		
Trichloroethene	1,460	70		ug/kg	65.2	79-01-6		
1,2-Dichloropropane	Not detected	70		ug/kg	65.2	78-87-5		
Bromodichloromethane	Not detected	100		ug/kg	65.2	75-27-4		
Dibromomethane	Not detected	300		ug/kg	65.2	74-95-3		

Lab Sample ID: S14903.06 (continued)
Sample Tag: SB-84-20(3-5)_061520

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 21:49, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
cis-1,3-Dichloropropene	Not detected	70		ug/kg	65.2	10061-01-5		
Toluene	Not detected	70		ug/kg	65.2	108-88-3		
trans-1,3-Dichloropropene	Not detected	70		ug/kg	65.2	10061-02-6		
1,1,2-Trichloroethane	Not detected	70		ug/kg	65.2	79-00-5		
Tetrachloroethene	Not detected	70		ug/kg	65.2	127-18-4		
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	65.2	110-57-6		
Dibromochloromethane	Not detected	100		ug/kg	65.2	124-48-1		
1,2-Dibromoethane	Not detected	30		ug/kg	65.2	106-93-4	M	
Chlorobenzene	Not detected	70		ug/kg	65.2	108-90-7		
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	65.2	630-20-6		
Ethylbenzene	Not detected	70		ug/kg	65.2	100-41-4		
p,m-Xylene	Not detected	100		ug/kg	65.2			
o-Xylene	Not detected	70		ug/kg	65.2	95-47-6		
Styrene	Not detected	70		ug/kg	65.2	100-42-5		
Isopropylbenzene	Not detected	300		ug/kg	65.2	98-82-8		
Bromoform	Not detected	100		ug/kg	65.2	75-25-2		
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	65.2	79-34-5		
1,2,3-Trichloropropane	Not detected	100		ug/kg	65.2	96-18-4		
n-Propylbenzene	Not detected	70		ug/kg	65.2	103-65-1		
Bromobenzene	Not detected	100		ug/kg	65.2	108-86-1		
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	65.2	108-67-8		
tert-Butylbenzene	Not detected	70		ug/kg	65.2	98-06-6		
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	65.2	95-63-6		
sec-Butylbenzene	Not detected	70		ug/kg	65.2	135-98-8		
p-Isopropyltoluene	Not detected	100		ug/kg	65.2	99-87-6		
1,3-Dichlorobenzene	Not detected	100		ug/kg	65.2	541-73-1		
1,4-Dichlorobenzene	Not detected	100		ug/kg	65.2	106-46-7		
1,2-Dichlorobenzene	Not detected	100		ug/kg	65.2	95-50-1		
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	65.2	526-73-8		
n-Butylbenzene	Not detected	70		ug/kg	65.2	104-51-8		
Hexachloroethane	Not detected	400		ug/kg	65.2	67-72-1		
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	65.2	96-12-8		
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	65.2	120-82-1		
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	65.2	87-61-6		
Naphthalene	500	300		ug/kg	65.2	91-20-3		
2-Methylnaphthalene	400	100		ug/kg	65.2	91-57-6		

M-Result reported to MDL not RDL

Lab Sample ID: S14903.07
Sample Tag: SB-84-23(1-3)_061520
Collected Date/Time: 06/15/2020 10:50
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	94	1		%	1			

Metals

Method: SW6020A, Run Date: 06/19/20 12:12, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Arsenic	1.89	0.20		mg/kg	220	7440-38-2		

Lab Sample ID: S14903.08
Sample Tag: SB-84-23(3-5)_061520
Collected Date/Time: 06/15/2020 10:55
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	89	1		%	1			

Metals

Method: SW6020A, Run Date: 06/19/20 12:10, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Arsenic	1.79	0.20		mg/kg	229	7440-38-2		

Lab Sample ID: S14903.09
Sample Tag: SB-81-53(1-3)_061520
Collected Date/Time: 06/15/2020 11:55
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/17/20 12:00	TV	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/18/20 17:57, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S14903.10
Sample Tag: SB-81-53(3-5)_061520
Collected Date/Time: 06/15/2020 12:00
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/19/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	81	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/22/20 14:18, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S14903.11
Sample Tag: SB-81-54(1-3)_061520
Collected Date/Time: 06/15/2020 12:30
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/19/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/22/20 14:30, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	30	12674-11-2		
PCB-1242	Not detected	330		ug/kg	30	53469-21-9		
PCB-1221	Not detected	330		ug/kg	30	11104-28-2		
PCB-1232	Not detected	330		ug/kg	30	11141-16-5		
PCB-1248	Not detected	330		ug/kg	30	12672-29-6		
PCB-1254	600	330		ug/kg	30	11097-69-1		
PCB-1260	Not detected	330		ug/kg	30	11096-82-5		

Lab Sample ID: S14903.12
Sample Tag: SB-81-54(3-5)_061520
Collected Date/Time: 06/15/2020 12:35
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/19/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	93	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/22/20 16:17, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y	
PCB-1242	Not detected	1,000		ug/kg	200	53469-21-9	Y	
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y	
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y	
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y	
PCB-1254	7,000	1,000		ug/kg	200	11097-69-1	Y	
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S14903.13
Sample Tag: SB-10-81(1.5-3)_061520
Collected Date/Time: 06/15/2020 13:30
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/19/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	95	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/22/20 14:42, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	2,000		ug/kg	300	12674-11-2	Y	
PCB-1242	Not detected	2,000		ug/kg	300	53469-21-9	Y	
PCB-1221	Not detected	2,000		ug/kg	300	11104-28-2	Y	
PCB-1232	Not detected	2,000		ug/kg	300	11141-16-5	Y	
PCB-1248	Not detected	2,000		ug/kg	300	12672-29-6	Y	
PCB-1254	14,000	2,000		ug/kg	300	11097-69-1	Y	
PCB-1260	Not detected	2,000		ug/kg	300	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S14903.14
Sample Tag: SB-10-81(3-5)_061520
Collected Date/Time: 06/15/2020 13:35
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/19/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/22/20 15:13, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	3,000		ug/kg	500	12674-11-2	Y	
PCB-1242	Not detected	3,000		ug/kg	500	53469-21-9	Y	
PCB-1221	Not detected	3,000		ug/kg	500	11104-28-2	Y	
PCB-1232	Not detected	3,000		ug/kg	500	11141-16-5	Y	
PCB-1248	Not detected	3,000		ug/kg	500	12672-29-6	Y	
PCB-1254	23,000	3,000		ug/kg	500	11097-69-1	Y	
PCB-1260	Not detected	3,000		ug/kg	500	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S14903.15
Sample Tag: SB-10-82(1-3)_061520
Collected Date/Time: 06/15/2020 13:55
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/19/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	95	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/22/20 15:37, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S14903.16
Sample Tag: SB-10-82(3.5-5)_061520
Collected Date/Time: 06/15/2020 14:00
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/19/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	70	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/22/20 15:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S14903.17
Sample Tag: SB-10-80(1-3)_061520
Collected Date/Time: 06/15/2020 14:20
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/19/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	94	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/22/20 15:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	3,000		ug/kg	500	12674-11-2	Y	
PCB-1242	Not detected	3,000		ug/kg	500	53469-21-9	Y	
PCB-1221	Not detected	3,000		ug/kg	500	11104-28-2	Y	
PCB-1232	Not detected	3,000		ug/kg	500	11141-16-5	Y	
PCB-1248	Not detected	3,000		ug/kg	500	12672-29-6	Y	
PCB-1254	18,000	3,000		ug/kg	500	11097-69-1	Y	
PCB-1260	Not detected	3,000		ug/kg	500	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S14903.18
Sample Tag: SB-10-80(3-5)_061520
Collected Date/Time: 06/15/2020 14:25
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/22/20 12:00	TV	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/22/20 16:31, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	500	12674-11-2	Y	
PCB-1242	Not detected	330		ug/kg	500	53469-21-9	Y	
PCB-1221	Not detected	330		ug/kg	500	11104-28-2	Y	
PCB-1232	Not detected	330		ug/kg	500	11141-16-5	Y	
PCB-1248	Not detected	330		ug/kg	500	12672-29-6	Y	
PCB-1254	17,000	3,000		ug/kg	500	11097-69-1	Y	
PCB-1260	Not detected	330		ug/kg	500	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S14903.19
Sample Tag: RFI-83/84-16R(2.8-4.8)_061620
Collected Date/Time: 06/16/2020 09:30
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.01	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	1.67	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.87	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	85	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 15:46, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	12,200	0.30		mg/kg	11500	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 11:37, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	27.4	0.03		mg/L	99	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S14903.20
Sample Tag: RFI-83/84-35R(1-3)_061620
Collected Date/Time: 06/16/2020 08:50
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 15:56, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	67.6	0.30		mg/kg	216	7439-92-1		

Lab Sample ID: S14903.21
Sample Tag: RFI-83/84-17R2(1-3)_061620
Collected Date/Time: 06/16/2020 09:50
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.50	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	1.64	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.51	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:00, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	13,000	0.30		mg/kg	10850	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 11:40, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	75.3	0.03		mg/L	100	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S14903.22
Sample Tag: RFI-83/84-05R(1-3)_061620
Collected Date/Time: 06/16/2020 10:10
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:06, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	7.50	0.30		mg/kg	224	7439-92-1		

Lab Sample ID: S14903.23
Sample Tag: RFI-83/84-05R(3-5)_061620
Collected Date/Time: 06/16/2020 10:15
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.69	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	1.65	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.44	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:03, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	20,000	0.30		mg/kg	11300	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 11:41, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	11.3	0.03		mg/L	97	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S14903.24
Sample Tag: SB-83/84-54(1-2)_061620
Collected Date/Time: 06/16/2020 11:10
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:12, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	57.1	0.30		mg/kg	223	7439-92-1		

Lab Sample ID: S14903.25
Sample Tag: SB-83/84-54(2-4)_061620
Collected Date/Time: 06/16/2020 11:15
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	94	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:13, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	86.4	0.30		mg/kg	222	7439-92-1		

Lab Sample ID: S14903.26
Sample Tag: SB-83/84-04R(1-2)_061620
Collected Date/Time: 06/16/2020 11:40
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	9.66	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	2.00	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	5.67	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:15, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	29.1	0.30		mg/kg	215	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 11:42, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	0.04	0.03		mg/L	100	7439-92-1		5.0

Lab Sample ID: S14903.27
Sample Tag: SB-83/84-04R(2-4)_061620
Collected Date/Time: 06/16/2020 11:45
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	97	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:33, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	3.81	0.30		mg/kg	213	7439-92-1		

Lab Sample ID: S14903.28
Sample Tag: SB-83/84-04R(4-6)_061620
Collected Date/Time: 06/16/2020 11:50
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:34, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	10.9	0.30		mg/kg	223	7439-92-1		

Lab Sample ID: S14903.29
Sample Tag: SB-83/84-04R(6.2-8)_061620
Collected Date/Time: 06/16/2020 11:55
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:40, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	0.93	0.30		mg/kg	236	7439-92-1		

Lab Sample ID: S14903.30
Sample Tag: SB-83/84-04R(8-10)_061620
Collected Date/Time: 06/16/2020 12:00
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	83	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 17:16, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	3.39	0.30		mg/kg	234	7439-92-1		

Lab Sample ID: S14903.31
Sample Tag: SB-83/84-53(2.5-4)_061620
Collected Date/Time: 06/16/2020 13:10
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/30/20 12:20	CCM	
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	7.50	SW1311	07/28/20 18:40 - 07/29/20	DJB	
pH after 3.5 ml HCl	3.69	SW1311	07/28/20 18:40 - 07/29/20	DJB	
% Solids	100	SW1311	07/28/20 18:40 - 07/29/20	DJB	
Sample Used g	40	SW1311	07/28/20 18:40 - 07/29/20	DJB	
Final Volume mL	800	SW1311	07/28/20 18:40 - 07/29/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/28/20 18:40 - 07/29/20	DJB	
Final Extract pH	4.88	SW1311	07/28/20 18:40 - 07/29/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	85	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:48, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	385,000	0.30		mg/kg	120500	7439-92-1		

Method: SW6020A, Run Date: 07/30/20 13:58, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	987	0.30		mg/L	250	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S14903.32
Sample Tag: SB-83/84-53(4-6)_061620
Collected Date/Time: 06/16/2020 13:15
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 18:31, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	83	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:46, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	32.0	0.30		mg/kg	234	7439-92-1		

Lab Sample ID: S14903.33
Sample Tag: SB-83/84-37R(2.5-5)_061620
Collected Date/Time: 06/16/2020 13:50
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 18:31, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:50, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	230	0.30		mg/kg	11550	7439-92-1		

Lab Sample ID: S14903.34
Sample Tag: SB-83/84-51(1-3)_061620
Collected Date/Time: 06/16/2020 14:30
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.62	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	1.72	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.48	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/17/20 18:31, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:52, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	1,400	0.30		mg/kg	11600	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 11:43, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	37.0	0.03		mg/L	100	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S14903.35
Sample Tag: SB-83/84-51(3-5)_061620
Collected Date/Time: 06/16/2020 14:35
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.46	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	1.61	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.35	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/17/20 18:31, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:53, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	1,730	0.30		mg/kg	11600	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 11:44, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	20.9	0.03		mg/L	99	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S14903.36
Sample Tag: SB-83/84-51(5-7)_061620
Collected Date/Time: 06/16/2020 14:40
Matrix: Soil
COC Reference: 134521

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 18:31, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:56, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	4.69	0.30		mg/kg	233	7439-92-1		

Merit Laboratories Login Checklist

Lab Set ID: S14903
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: Buick City - RC Delineation
Submitted: 06/17/2020 08:15 Login User: SRS

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.3
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[ ] Yes	[X] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

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C.O.C. PAGE # 1 OF 4

128666

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: M.Macki/MC Goddard/M.Humphrey/E.Kozak/J.Barker
COMPANY: 28550 Cabot Dr. suite#500
ADDRESS: Arcadis
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 FAX NO.: P.O. NO.: 30043300
E-MAIL ADDRESS: joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: Buckeye - RC Delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Ellen Redner/ER

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	Arsenic	PCBs
14903.01	6/15/20	0900	SB-84-21(1-3)_061520	S	2	1					1		X		
.02		0920	SB-84-21(3-5)_061520		2	1					1		X		
.03		0945	SB-84-22(1-3)_061520		2	1					1		X		
.04		0950	SB-84-22(3-5)_061520		2	1					1		X		
.05		1015	SB-84-20(1-3)_061520		2	1					1		X		
.06		1020	SB-84-20(3-5)_061520		2	1					1		X		
.07		1050	SB-84-23(1-3)_061520		1	1								X	
.08		1055	SB-84-23(3-5)_061520		1	1								X	
.09		1155	SB-81-53(1-3)_061520		1	1									X
.10		1200	SB-81-53(3-5)_061520		1	1									X
.11		1230	SB-81-54(1-3)_061520		1	1									X
.12	↓	1235	SB-81-54(3-5)_061520	↓	1	1									X

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE	TIME
Ellen Redner		6/16/2020	1655
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
Merit Labs		6/16/2020	1655
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
		6/16/20	1655

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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C.O.C. PAGE # 2 OF 4

128667

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: M.Macki/MC Goddard/M.Humphrey/E.Kozak/J.Barker
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr., Suite #500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248-790-5218 | FAX NO.: | P.O. NO.: 30043300
E-MAIL ADDRESS: Joey.Barker@arcadis.com | QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | E-MAIL ADDRESS:

PROJECT NO./NAME: Buick City - RC Delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Ellen Rechner/ERechner

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Lead (total) TCLP	Special Instructions
14903.13	6/15/20	1330	SB-10-81(1.5-3)_061520	S	1	X							X		
.14		1335	SB-10-81(3-5)_061520												
.15		1355	SB-10-82(1-3)_061520												
.16		1400	SB-10-82(3.5-5)_061520												
.17		1420	SB-10-80(1-3)_061520												
.18		1425	SB-10-80(3-5)_061520												
.19	6/16/20	0930	RFI-83/84-16R(2.8-4.8)_061620											X	Hold For TCLP
.20		0850	RFI-83/84-35R(1-3)_061620											X	"
.21		0950	RFI-83/84-17R2(1-3)_061620												
.22		1010	RFI-83/84-05R(1-3)_061620												
.23		1015	RFI-83/84-05R(3-5)_061620												
.24		1110	SB-83/84-54(1-2)_061620												

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE	TIME
EQuipment Blank		6/16/2020	1655
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
Merit Labs		6/16/2020	1655
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
[signature]		6/16/20	1655

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: TEMP. ON ARRIVAL 4.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 3 OF 4

134523

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: M. Macki / MC Goddard / M. Humphrey / E. Rozak / J. Barker
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr., Suite #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 FAX NO.:
P.O. NO.: ~~400~~ ER
E-MAIL ADDRESS: joly.barker@arcadis.com
QUOTE NO.: 30043300

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: Buick City - RC Delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Ellen Redner / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Lead (Total) TCLP	Special Instructions
14903.25	6/16/20	1115	SB-83/84-54(2-4)_061620	S	1	X							X	Hold For TCLP
.26		1140	SB-83/84-04R(1-2)_061620											"
.27		1145	SB-83/84-04R(2-4)_061620											"
.28		1150	SB-83/84-04R(4-6)_061620											"
.29		1155	SB-83/84-04R(6-8)_061620											"
.30		1200	SB-83/84-04R(8-10)_061620											"
~~.31~~		~~1305~~	~~SB-83/84-53(0-2.5)_061620~~ ER											
.31		1310	SB-83/84-53(2.5-4)_061620											"
.32		1315	SB-83/84-53(4-6)_061620											"
.33		1350	RFI-83/84-37R(2.5-5)_061620											"
.34		1430	SB-83/84-51(1-3)_061620											"
.35		1435	SB-83/84-51(3-5)_061620											"

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE	TIME
[signature]		6/16/2020	1655
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
Merit Labs		6/16/2020	1655
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
[signature]		6/16/20	1655

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 4.3
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 4 OF 4

134521

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: m.macki / mc Goddard / m. Humphrey / E. Kozak / J. Barker
COMPANY: 28550 Cabot Dr. Suite #500
ADDRESS: Arcadis
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO: 248-790-5218 | FAX NO. | P.O. NO.: 30043300
E-MAIL ADDRESS: Joey.Barker@arcadis.com | QUOTE NO.

INVOICE TO

CONTACT NAME | ☐ SAME
COMPANY
ADDRESS
CITY | STATE | ZIP CODE
PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME: Buick City - RC Delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Ellen Redner / ER

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Lead (TOTAL) TCLP	Special Instructions
14903.36	6/16/20	1440	SB-83184-5(5-7)_061620	S	1	X							X	Hold For TCLP

RELINQUISHED BY: SIGNATURE/ORGANIZATION: ER ☒ Sampler | DATE: 6/16/2020 | TIME: 1655
RECEIVED BY: SIGNATURE/ORGANIZATION: Merit Labs | DATE: 6/16/2020 | TIME: 1655
RELINQUISHED BY: SIGNATURE/ORGANIZATION | DATE | TIME
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature] | DATE: 6/16/20 | TIME: 1655

RELINQUISHED BY: SIGNATURE/ORGANIZATION | DATE | TIME
RECEIVED BY: SIGNATURE/ORGANIZATION | DATE | TIME

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: TEMP. ON ARRIVAL 4.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Revised Report

Report ID: S14903.01(05)
Generated on 02/19/2021

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Megan Humphrey, Micki Maki, Joey Barker, Mary-Catherine Goddard, Chris Peters

Report Summary

Lab Sample ID(s): S14903.01-S14903.36
Project: Buick City - RC Delineation
Collected Date(s): 06/15/2020 - 06/16/2020
Submitted Date/Time: 06/17/2020 08:15
Sampled by: Ellen Redner
P.O. #: 30043300

Table of Contents

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General Report Notes (Page 2)
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Sample Summary (Page 5)



Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Report Narrative

Samples tags revised per client request.

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW1311	SW 846 Method 1311 Revision 0 July 1992
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW5035A	SW 846 Method 5035A Revision 1 July 2002
SW5035A/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5035A Revision 1 July 2002
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (36 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S14903.01	SB-84-69(1-3)_061520	Soil	06/15/20 09:00
S14903.02	SB-84-69(3-5)_061520	Soil	06/15/20 09:20
S14903.03	SB-84-70(1-3)_061520	Soil	06/15/20 09:45
S14903.04	SB-84-70(3-5)_061520	Soil	06/15/20 09:50
S14903.05	SB-84-20(1-3)_061520	Soil	06/15/20 10:15
S14903.06	SB-84-20(3-5)_061520	Soil	06/15/20 10:20
S14903.07	SB-84-23(1-3)_061520	Soil	06/15/20 10:50
S14903.08	SB-84-23(3-5)_061520	Soil	06/15/20 10:55
S14903.09	SB-81-53(1-3)_061520	Soil	06/15/20 11:55
S14903.10	SB-81-53(3-5)_061520	Soil	06/15/20 12:00
S14903.11	SB-81-54(1-3)_061520	Soil	06/15/20 12:30
S14903.12	SB-81-54(3-5)_061520	Soil	06/15/20 12:35
S14903.13	SB-10-81(1.5-3)_061520	Soil	06/15/20 13:30
S14903.14	SB-10-81(3-5)_061520	Soil	06/15/20 13:35
S14903.15	SB-10-82(1-3)_061520	Soil	06/15/20 13:55
S14903.16	SB-10-82(3.5-5)_061520	Soil	06/15/20 14:00
S14903.17	SB-10-80(1-3)_061520	Soil	06/15/20 14:20
S14903.18	SB-10-80(3-5)_061520	Soil	06/15/20 14:25
S14903.19	RFI-83/84-16R(2.8-4.8)_061620	Soil	06/16/20 09:30
S14903.20	RFI-83/84-35R(1-3)_061620	Soil	06/16/20 08:50
S14903.21	RFI-83/84-17R2(1-3)_061620	Soil	06/16/20 09:50
S14903.22	RFI-83/84-05R(1-3)_061620	Soil	06/16/20 10:10
S14903.23	RFI-83/84-05R(3-5)_061620	Soil	06/16/20 10:15
S14903.24	SB-83/84-54(1-2)_061620	Soil	06/16/20 11:10
S14903.25	SB-83/84-54(2-4)_061620	Soil	06/16/20 11:15
S14903.26	SB-83/84-04R(1-2)_061620	Soil	06/16/20 11:40
S14903.27	SB-83/84-04R(2-4)_061620	Soil	06/16/20 11:45
S14903.28	SB-83/84-04R(4-6)_061620	Soil	06/16/20 11:50
S14903.29	SB-83/84-04R(6.2-8)_061620	Soil	06/16/20 11:55
S14903.30	SB-83/84-04R(8-10)_061620	Soil	06/16/20 12:00
S14903.31	SB-83/84-53(2.5-4)_061620	Soil	06/16/20 13:10
S14903.32	SB-83/84-53(4-6)_061620	Soil	06/16/20 13:15
S14903.33	SB-83/84-37R(2.5-5)_061620	Soil	06/16/20 13:50
S14903.34	SB-83/84-51(1-3)_061620	Soil	06/16/20 14:30
S14903.35	SB-83/84-51(3-5)_061620	Soil	06/16/20 14:35
S14903.36	SB-83/84-51(5-7)_061620	Soil	06/16/20 14:40

Lab Sample ID: S14903.01
Sample Tag: SB-84-69(1-3)_061520
Collected Date/Time: 06/15/2020 09:00
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10.235/10	SW5035A	06/18/20 11:50	JML	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	96	1		%	1			

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/18/20 21:37, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	200		ug/kg	53	60-29-7		
Acetone	Not detected	1,000		ug/kg	53	67-64-1		
Methyl iodide	Not detected	100		ug/kg	53	74-88-4		
Carbon disulfide	Not detected	300		ug/kg	53	75-15-0		
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	53	1634-04-4		
Acrylonitrile	Not detected	100		ug/kg	53	107-13-1		
2-Butanone (MEK)	Not detected	800		ug/kg	53	78-93-3		
Dichlorodifluoromethane	Not detected	300		ug/kg	53	75-71-8		
Chloromethane	Not detected	300		ug/kg	53	74-87-3		
Vinyl chloride	Not detected	50		ug/kg	53	75-01-4		
Bromomethane	Not detected	200		ug/kg	53	74-83-9		
Chloroethane	Not detected	300		ug/kg	53	75-00-3		
Trichlorofluoromethane	Not detected	100		ug/kg	53	75-69-4		
1,1-Dichloroethene	Not detected	50		ug/kg	53	75-35-4		
Methylene chloride	Not detected	100		ug/kg	53	75-09-2		
trans-1,2-Dichloroethene	Not detected	50		ug/kg	53	156-60-5		
1,1-Dichloroethane	Not detected	50		ug/kg	53	75-34-3		
cis-1,2-Dichloroethene	Not detected	50		ug/kg	53	156-59-2		
Tetrahydrofuran*	Not detected	1,000		ug/kg	53	109-99-9		
Chloroform	Not detected	50		ug/kg	53	67-66-3		
Bromochloromethane	Not detected	100		ug/kg	53	74-97-5		
1,1,1-Trichloroethane	Not detected	50		ug/kg	53	71-55-6		
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	53	108-10-1		
2-Hexanone	Not detected	3,000		ug/kg	53	591-78-6		
Carbon tetrachloride	Not detected	50		ug/kg	53	56-23-5		
Benzene	Not detected	50		ug/kg	53	71-43-2		
1,2-Dichloroethane	Not detected	50		ug/kg	53	107-06-2		
Trichloroethene	3,990	50		ug/kg	53	79-01-6		
1,2-Dichloropropane	Not detected	50		ug/kg	53	78-87-5		
Bromodichloromethane	Not detected	100		ug/kg	53	75-27-4		
Dibromomethane	Not detected	300		ug/kg	53	74-95-3		

Lab Sample ID: S14903.01 (continued)
Sample Tag: SB-84-69(1-3)_061520

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/18/20 21:37, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
cis-1,3-Dichloropropene	Not detected	50		ug/kg	53	10061-01-5		
Toluene	70	50		ug/kg	53	108-88-3		
trans-1,3-Dichloropropene	Not detected	50		ug/kg	53	10061-02-6		
1,1,2-Trichloroethane	Not detected	50		ug/kg	53	79-00-5		
Tetrachloroethene	Not detected	50		ug/kg	53	127-18-4		
trans-1,4-Dichloro-2-butene	Not detected	50		ug/kg	53	110-57-6		
Dibromochloromethane	Not detected	100		ug/kg	53	124-48-1		
1,2-Dibromoethane	Not detected	20		ug/kg	53	106-93-4	M	
Chlorobenzene	Not detected	50		ug/kg	53	108-90-7		
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	53	630-20-6		
Ethylbenzene	Not detected	50		ug/kg	53	100-41-4		
p,m-Xylene	100	100		ug/kg	53			
o-Xylene	70	50		ug/kg	53	95-47-6		
Styrene	Not detected	50		ug/kg	53	100-42-5		
Isopropylbenzene	Not detected	300		ug/kg	53	98-82-8		
Bromoform	Not detected	100		ug/kg	53	75-25-2		
1,1,2,2-Tetrachloroethane	Not detected	50		ug/kg	53	79-34-5		
1,2,3-Trichloropropane	Not detected	100		ug/kg	53	96-18-4		
n-Propylbenzene	Not detected	50		ug/kg	53	103-65-1		
Bromobenzene	Not detected	100		ug/kg	53	108-86-1		
1,3,5-Trimethylbenzene	Not detected	50		ug/kg	53	108-67-8		
tert-Butylbenzene	Not detected	50		ug/kg	53	98-06-6		
1,2,4-Trimethylbenzene	Not detected	50		ug/kg	53	95-63-6		
sec-Butylbenzene	Not detected	50		ug/kg	53	135-98-8		
p-Isopropyltoluene	Not detected	100		ug/kg	53	99-87-6		
1,3-Dichlorobenzene	Not detected	100		ug/kg	53	541-73-1		
1,4-Dichlorobenzene	Not detected	100		ug/kg	53	106-46-7		
1,2-Dichlorobenzene	Not detected	100		ug/kg	53	95-50-1		
1,2,3-Trimethylbenzene	Not detected	50		ug/kg	53	526-73-8		
n-Butylbenzene	Not detected	50		ug/kg	53	104-51-8		
Hexachloroethane	Not detected	300		ug/kg	53	67-72-1		
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	53	96-12-8		
1,2,4-Trichlorobenzene	Not detected	350		ug/kg	53	120-82-1		
1,2,3-Trichlorobenzene	Not detected	350		ug/kg	53	87-61-6		
Naphthalene	300	300		ug/kg	53	91-20-3		
2-Methylnaphthalene	200	100		ug/kg	53	91-57-6		

M-Result reported to MDL not RDL

Lab Sample ID: S14903.02
Sample Tag: SB-84-69(3-5)_061520
Collected Date/Time: 06/15/2020 09:20
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10.792/10	SW5035A	06/18/20 11:50	JML	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/18/20 21:57, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	200		ug/kg	59.5	60-29-7		
Acetone	Not detected	1,000		ug/kg	59.5	67-64-1		
Methyl iodide	Not detected	100		ug/kg	59.5	74-88-4		
Carbon disulfide	Not detected	300		ug/kg	59.5	75-15-0		
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	59.5	1634-04-4		
Acrylonitrile	Not detected	100		ug/kg	59.5	107-13-1		
2-Butanone (MEK)	Not detected	890		ug/kg	59.5	78-93-3		
Dichlorodifluoromethane	Not detected	300		ug/kg	59.5	75-71-8		
Chloromethane	Not detected	300		ug/kg	59.5	74-87-3		
Vinyl chloride	Not detected	60		ug/kg	59.5	75-01-4		
Bromomethane	Not detected	200		ug/kg	59.5	74-83-9		
Chloroethane	Not detected	300		ug/kg	59.5	75-00-3		
Trichlorofluoromethane	Not detected	100		ug/kg	59.5	75-69-4		
1,1-Dichloroethene	Not detected	60		ug/kg	59.5	75-35-4		
Methylene chloride	Not detected	100		ug/kg	59.5	75-09-2		
trans-1,2-Dichloroethene	Not detected	60		ug/kg	59.5	156-60-5		
1,1-Dichloroethane	Not detected	60		ug/kg	59.5	75-34-3		
cis-1,2-Dichloroethene	Not detected	60		ug/kg	59.5	156-59-2		
Tetrahydrofuran*	Not detected	1,000		ug/kg	59.5	109-99-9		
Chloroform	Not detected	60		ug/kg	59.5	67-66-3		
Bromochloromethane	Not detected	100		ug/kg	59.5	74-97-5		
1,1,1-Trichloroethane	Not detected	60		ug/kg	59.5	71-55-6		
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	59.5	108-10-1		
2-Hexanone	Not detected	3,000		ug/kg	59.5	591-78-6		
Carbon tetrachloride	Not detected	60		ug/kg	59.5	56-23-5		
Benzene	Not detected	60		ug/kg	59.5	71-43-2		
1,2-Dichloroethane	Not detected	60		ug/kg	59.5	107-06-2		
Trichloroethene	3,530	60		ug/kg	59.5	79-01-6		
1,2-Dichloropropane	Not detected	60		ug/kg	59.5	78-87-5		
Bromodichloromethane	Not detected	100		ug/kg	59.5	75-27-4		
Dibromomethane	Not detected	300		ug/kg	59.5	74-95-3		

Lab Sample ID: S14903.02 (continued)
Sample Tag: SB-84-69(3-5)_061520

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/18/20 21:57, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
cis-1,3-Dichloropropene	Not detected	60		ug/kg	59.5	10061-01-5		
Toluene	Not detected	60		ug/kg	59.5	108-88-3		
trans-1,3-Dichloropropene	Not detected	60		ug/kg	59.5	10061-02-6		
1,1,2-Trichloroethane	Not detected	60		ug/kg	59.5	79-00-5		
Tetrachloroethene	Not detected	60		ug/kg	59.5	127-18-4		
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	59.5	110-57-6		
Dibromochloromethane	Not detected	100		ug/kg	59.5	124-48-1		
1,2-Dibromoethane	Not detected	20		ug/kg	59.5	106-93-4	M	
Chlorobenzene	Not detected	60		ug/kg	59.5	108-90-7		
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	59.5	630-20-6		
Ethylbenzene	Not detected	60		ug/kg	59.5	100-41-4		
p,m-Xylene	Not detected	100		ug/kg	59.5			
o-Xylene	Not detected	60		ug/kg	59.5	95-47-6		
Styrene	Not detected	60		ug/kg	59.5	100-42-5		
Isopropylbenzene	Not detected	300		ug/kg	59.5	98-82-8		
Bromoform	Not detected	100		ug/kg	59.5	75-25-2		
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	59.5	79-34-5		
1,2,3-Trichloropropane	Not detected	100		ug/kg	59.5	96-18-4		
n-Propylbenzene	Not detected	60		ug/kg	59.5	103-65-1		
Bromobenzene	Not detected	100		ug/kg	59.5	108-86-1		
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	59.5	108-67-8		
tert-Butylbenzene	Not detected	60		ug/kg	59.5	98-06-6		
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	59.5	95-63-6		
sec-Butylbenzene	Not detected	60		ug/kg	59.5	135-98-8		
p-Isopropyltoluene	Not detected	100		ug/kg	59.5	99-87-6		
1,3-Dichlorobenzene	Not detected	100		ug/kg	59.5	541-73-1		
1,4-Dichlorobenzene	Not detected	100		ug/kg	59.5	106-46-7		
1,2-Dichlorobenzene	Not detected	100		ug/kg	59.5	95-50-1		
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	59.5	526-73-8		
n-Butylbenzene	Not detected	60		ug/kg	59.5	104-51-8		
Hexachloroethane	Not detected	400		ug/kg	59.5	67-72-1		
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	59.5	96-12-8		
1,2,4-Trichlorobenzene	Not detected	390		ug/kg	59.5	120-82-1		
1,2,3-Trichlorobenzene	Not detected	390		ug/kg	59.5	87-61-6		
Naphthalene	500	300		ug/kg	59.5	91-20-3		
2-Methylnaphthalene	200	100		ug/kg	59.5	91-57-6		

M-Result reported to MDL not RDL

Lab Sample ID: S14903.03
Sample Tag: SB-84-70(1-3)_061520
Collected Date/Time: 06/15/2020 09:45
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10.616/10	SW5035A	06/18/20 11:50	JML	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	96	1		%	1			

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/18/20 22:17, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	200		ug/kg	51.1	60-29-7		
Acetone	Not detected	1,000		ug/kg	51.1	67-64-1		
Methyl iodide	Not detected	100		ug/kg	51.1	74-88-4		
Carbon disulfide	Not detected	300		ug/kg	51.1	75-15-0		
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	51.1	1634-04-4		
Acrylonitrile	Not detected	100		ug/kg	51.1	107-13-1		
2-Butanone (MEK)	Not detected	770		ug/kg	51.1	78-93-3		
Dichlorodifluoromethane	Not detected	300		ug/kg	51.1	75-71-8		
Chloromethane	Not detected	300		ug/kg	51.1	74-87-3		
Vinyl chloride	Not detected	50		ug/kg	51.1	75-01-4		
Bromomethane	Not detected	200		ug/kg	51.1	74-83-9		
Chloroethane	Not detected	300		ug/kg	51.1	75-00-3		
Trichlorofluoromethane	Not detected	100		ug/kg	51.1	75-69-4		
1,1-Dichloroethene	Not detected	50		ug/kg	51.1	75-35-4		
Methylene chloride	Not detected	100		ug/kg	51.1	75-09-2		
trans-1,2-Dichloroethene	Not detected	50		ug/kg	51.1	156-60-5		
1,1-Dichloroethane	Not detected	50		ug/kg	51.1	75-34-3		
cis-1,2-Dichloroethene	70	50		ug/kg	51.1	156-59-2		
Tetrahydrofuran*	Not detected	1,000		ug/kg	51.1	109-99-9		
Chloroform	Not detected	50		ug/kg	51.1	67-66-3		
Bromochloromethane	Not detected	100		ug/kg	51.1	74-97-5		
1,1,1-Trichloroethane	Not detected	50		ug/kg	51.1	71-55-6		
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	51.1	108-10-1		
2-Hexanone	Not detected	3,000		ug/kg	51.1	591-78-6		
Carbon tetrachloride	Not detected	50		ug/kg	51.1	56-23-5		
Benzene	Not detected	50		ug/kg	51.1	71-43-2		
1,2-Dichloroethane	Not detected	50		ug/kg	51.1	107-06-2		
Trichloroethene	6,840	50		ug/kg	51.1	79-01-6		
1,2-Dichloropropane	Not detected	50		ug/kg	51.1	78-87-5		
Bromodichloromethane	Not detected	100		ug/kg	51.1	75-27-4		
Dibromomethane	Not detected	300		ug/kg	51.1	74-95-3		

Lab Sample ID: S14903.03 (continued)
Sample Tag: SB-84-70(1-3)_061520

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/18/20 22:17, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
cis-1,3-Dichloropropene	Not detected	50		ug/kg	51.1	10061-01-5		
Toluene	Not detected	50		ug/kg	51.1	108-88-3		
trans-1,3-Dichloropropene	Not detected	50		ug/kg	51.1	10061-02-6		
1,1,2-Trichloroethane	Not detected	50		ug/kg	51.1	79-00-5		
Tetrachloroethene	Not detected	50		ug/kg	51.1	127-18-4		
trans-1,4-Dichloro-2-butene	Not detected	50		ug/kg	51.1	110-57-6		
Dibromochloromethane	Not detected	100		ug/kg	51.1	124-48-1		
1,2-Dibromoethane	Not detected	20		ug/kg	51.1	106-93-4	M	
Chlorobenzene	Not detected	50		ug/kg	51.1	108-90-7		
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	51.1	630-20-6		
Ethylbenzene	Not detected	50		ug/kg	51.1	100-41-4		
p,m-Xylene	Not detected	100		ug/kg	51.1			
o-Xylene	Not detected	50		ug/kg	51.1	95-47-6		
Styrene	Not detected	50		ug/kg	51.1	100-42-5		
Isopropylbenzene	Not detected	300		ug/kg	51.1	98-82-8		
Bromoform	Not detected	100		ug/kg	51.1	75-25-2		
1,1,2,2-Tetrachloroethane	Not detected	50		ug/kg	51.1	79-34-5		
1,2,3-Trichloropropane	Not detected	100		ug/kg	51.1	96-18-4		
n-Propylbenzene	Not detected	50		ug/kg	51.1	103-65-1		
Bromobenzene	Not detected	100		ug/kg	51.1	108-86-1		
1,3,5-Trimethylbenzene	Not detected	50		ug/kg	51.1	108-67-8		
tert-Butylbenzene	Not detected	50		ug/kg	51.1	98-06-6		
1,2,4-Trimethylbenzene	Not detected	50		ug/kg	51.1	95-63-6		
sec-Butylbenzene	Not detected	50		ug/kg	51.1	135-98-8		
p-Isopropyltoluene	Not detected	100		ug/kg	51.1	99-87-6		
1,3-Dichlorobenzene	Not detected	100		ug/kg	51.1	541-73-1		
1,4-Dichlorobenzene	Not detected	100		ug/kg	51.1	106-46-7		
1,2-Dichlorobenzene	Not detected	100		ug/kg	51.1	95-50-1		
1,2,3-Trimethylbenzene	Not detected	50		ug/kg	51.1	526-73-8		
n-Butylbenzene	Not detected	50		ug/kg	51.1	104-51-8		
Hexachloroethane	Not detected	300		ug/kg	51.1	67-72-1		
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	51.1	96-12-8		
1,2,4-Trichlorobenzene	Not detected	340		ug/kg	51.1	120-82-1		
1,2,3-Trichlorobenzene	Not detected	340		ug/kg	51.1	87-61-6		
Naphthalene	Not detected	300		ug/kg	51.1	91-20-3		
2-Methylnaphthalene	Not detected	100		ug/kg	51.1	91-57-6		

M-Result reported to MDL not RDL

Lab Sample ID: S14903.04
Sample Tag: SB-84-70(3-5)_061520
Collected Date/Time: 06/15/2020 09:50
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10.547/10	SW5035A	06/18/20 11:50	JML	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	95	1		%	1			

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/22/20 22:00, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	2,000		ug/kg	525	60-29-7	Y	
Acetone	Not detected	10,000		ug/kg	525	67-64-1	Y	
Methyl iodide	Not detected	1,000		ug/kg	525	74-88-4	Y	
Carbon disulfide	Not detected	3,000		ug/kg	525	75-15-0	Y	
tert-Methyl butyl ether (MTBE)	Not detected	2,000		ug/kg	525	1634-04-4	Y	
Acrylonitrile	Not detected	1,000		ug/kg	525	107-13-1	Y	
2-Butanone (MEK)	Not detected	7,900		ug/kg	525	78-93-3	Y	
Dichlorodifluoromethane	Not detected	3,000		ug/kg	525	75-71-8	Y	
Chloromethane	Not detected	3,000		ug/kg	525	74-87-3	Y	
Vinyl chloride	Not detected	500		ug/kg	525	75-01-4	Y	
Bromomethane	Not detected	2,000		ug/kg	525	74-83-9	Y	
Chloroethane	Not detected	3,000		ug/kg	525	75-00-3	Y	
Trichlorofluoromethane	Not detected	1,000		ug/kg	525	75-69-4	Y	
1,1-Dichloroethene	Not detected	500		ug/kg	525	75-35-4	Y	
Methylene chloride	Not detected	1,000		ug/kg	525	75-09-2	Y	
trans-1,2-Dichloroethene	Not detected	500		ug/kg	525	156-60-5	Y	
1,1-Dichloroethane	Not detected	500		ug/kg	525	75-34-3	Y	
cis-1,2-Dichloroethene	800	500		ug/kg	525	156-59-2	Y	
Tetrahydrofuran*	Not detected	10,000		ug/kg	525	109-99-9	Y	
Chloroform	Not detected	500		ug/kg	525	67-66-3	Y	
Bromochloromethane	Not detected	1,000		ug/kg	525	74-97-5	Y	
1,1,1-Trichloroethane	Not detected	500		ug/kg	525	71-55-6	Y	
4-Methyl-2-pentanone (MIBK)	Not detected	30,000		ug/kg	525	108-10-1	Y	
2-Hexanone	Not detected	30,000		ug/kg	525	591-78-6	Y	
Carbon tetrachloride	Not detected	500		ug/kg	525	56-23-5	Y	
Benzene	Not detected	500		ug/kg	525	71-43-2	Y	
1,2-Dichloroethane	Not detected	500		ug/kg	525	107-06-2	Y	
Trichloroethene	60,600	500		ug/kg	525	79-01-6	Y	
1,2-Dichloropropane	Not detected	500		ug/kg	525	78-87-5	Y	
Bromodichloromethane	Not detected	1,000		ug/kg	525	75-27-4	Y	

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S14903.04 (continued)
Sample Tag: SB-84-70(3-5)_061520

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/22/20 22:00, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Dibromomethane	Not detected	3,000		ug/kg	525	74-95-3	Y	
cis-1,3-Dichloropropene	Not detected	500		ug/kg	525	10061-01-5	Y	
Toluene	Not detected	500		ug/kg	525	108-88-3	Y	
trans-1,3-Dichloropropene	Not detected	500		ug/kg	525	10061-02-6	Y	
1,1,2-Trichloroethane	Not detected	500		ug/kg	525	79-00-5	Y	
Tetrachloroethene	Not detected	500		ug/kg	525	127-18-4	Y	
trans-1,4-Dichloro-2-butene	Not detected	500		ug/kg	525	110-57-6	Y	
Dibromochloromethane	Not detected	1,000		ug/kg	525	124-48-1	Y	
1,2-Dibromoethane	Not detected	200		ug/kg	525	106-93-4	MY	
Chlorobenzene	Not detected	500		ug/kg	525	108-90-7	Y	
1,1,1,2-Tetrachloroethane	Not detected	1,000		ug/kg	525	630-20-6	Y	
Ethylbenzene	Not detected	500		ug/kg	525	100-41-4	Y	
p,m-Xylene	Not detected	1,000		ug/kg	525		Y	
o-Xylene	Not detected	500		ug/kg	525	95-47-6	Y	
Styrene	Not detected	500		ug/kg	525	100-42-5	Y	
Isopropylbenzene	Not detected	3,000		ug/kg	525	98-82-8	Y	
Bromoform	Not detected	1,000		ug/kg	525	75-25-2	Y	
1,1,2,2-Tetrachloroethane	Not detected	500		ug/kg	525	79-34-5	Y	
1,2,3-Trichloropropane	Not detected	1,000		ug/kg	525	96-18-4	Y	
n-Propylbenzene	Not detected	500		ug/kg	525	103-65-1	Y	
Bromobenzene	Not detected	1,000		ug/kg	525	108-86-1	Y	
1,3,5-Trimethylbenzene	Not detected	500		ug/kg	525	108-67-8	Y	
tert-Butylbenzene	Not detected	500		ug/kg	525	98-06-6	Y	
1,2,4-Trimethylbenzene	Not detected	500		ug/kg	525	95-63-6	Y	
sec-Butylbenzene	Not detected	500		ug/kg	525	135-98-8	Y	
p-Isopropyltoluene	Not detected	1,000		ug/kg	525	99-87-6	Y	
1,3-Dichlorobenzene	Not detected	1,000		ug/kg	525	541-73-1	Y	
1,4-Dichlorobenzene	Not detected	1,000		ug/kg	525	106-46-7	Y	
1,2-Dichlorobenzene	Not detected	1,000		ug/kg	525	95-50-1	Y	
1,2,3-Trimethylbenzene	Not detected	500		ug/kg	525	526-73-8	Y	
n-Butylbenzene	Not detected	500		ug/kg	525	104-51-8	Y	
Hexachloroethane	Not detected	3,000		ug/kg	525	67-72-1	Y	
1,2-Dibromo-3-chloropropane	Not detected	3,000		ug/kg	525	96-12-8	Y	
1,2,4-Trichlorobenzene	Not detected	3,500		ug/kg	525	120-82-1	Y	
1,2,3-Trichlorobenzene	Not detected	3,500		ug/kg	525	87-61-6	Y	
Naphthalene	Not detected	3,000		ug/kg	525	91-20-3	Y	
2-Methylnaphthalene	Not detected	1,000		ug/kg	525	91-57-6	Y	

Y-Elevated reporting limit due to high target concentration
M-Result reported to MDL not RDL

Lab Sample ID: S14903.05
Sample Tag: SB-84-20(1-3)_061520
Collected Date/Time: 06/15/2020 10:15
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	7.819/10	SW5035A	06/18/20 11:50	JML	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	98	1		%	1			

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 21:29, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	300		ug/kg	66.3	60-29-7		
Acetone	Not detected	1,000		ug/kg	66.3	67-64-1		
Methyl iodide	Not detected	100		ug/kg	66.3	74-88-4		
Carbon disulfide	Not detected	300		ug/kg	66.3	75-15-0		
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	66.3	1634-04-4		
Acrylonitrile	Not detected	100		ug/kg	66.3	107-13-1		
2-Butanone (MEK)	Not detected	990		ug/kg	66.3	78-93-3		
Dichlorodifluoromethane	Not detected	300		ug/kg	66.3	75-71-8		
Chloromethane	Not detected	300		ug/kg	66.3	74-87-3		
Vinyl chloride	Not detected	70		ug/kg	66.3	75-01-4		
Bromomethane	Not detected	300		ug/kg	66.3	74-83-9		
Chloroethane	Not detected	300		ug/kg	66.3	75-00-3		
Trichlorofluoromethane	Not detected	100		ug/kg	66.3	75-69-4		
1,1-Dichloroethene	Not detected	70		ug/kg	66.3	75-35-4		
Methylene chloride	Not detected	100		ug/kg	66.3	75-09-2		
trans-1,2-Dichloroethene	Not detected	70		ug/kg	66.3	156-60-5		
1,1-Dichloroethane	Not detected	70		ug/kg	66.3	75-34-3		
cis-1,2-Dichloroethene	Not detected	70		ug/kg	66.3	156-59-2		
Tetrahydrofuran*	Not detected	1,000		ug/kg	66.3	109-99-9		
Chloroform	Not detected	70		ug/kg	66.3	67-66-3		
Bromochloromethane	Not detected	100		ug/kg	66.3	74-97-5		
1,1,1-Trichloroethane	Not detected	70		ug/kg	66.3	71-55-6		
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	66.3	108-10-1		
2-Hexanone	Not detected	3,000		ug/kg	66.3	591-78-6		
Carbon tetrachloride	Not detected	70		ug/kg	66.3	56-23-5		
Benzene	Not detected	70		ug/kg	66.3	71-43-2		
1,2-Dichloroethane	Not detected	70		ug/kg	66.3	107-06-2		
Trichloroethene	2,920	70		ug/kg	66.3	79-01-6		
1,2-Dichloropropane	Not detected	70		ug/kg	66.3	78-87-5		
Bromodichloromethane	Not detected	100		ug/kg	66.3	75-27-4		
Dibromomethane	Not detected	300		ug/kg	66.3	74-95-3		

Lab Sample ID: S14903.05 (continued)
Sample Tag: SB-84-20(1-3)_061520

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 21:29, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
cis-1,3-Dichloropropene	Not detected	70		ug/kg	66.3	10061-01-5		
Toluene	Not detected	70		ug/kg	66.3	108-88-3		
trans-1,3-Dichloropropene	Not detected	70		ug/kg	66.3	10061-02-6		
1,1,2-Trichloroethane	Not detected	70		ug/kg	66.3	79-00-5		
Tetrachloroethene	Not detected	70		ug/kg	66.3	127-18-4		
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	66.3	110-57-6		
Dibromochloromethane	Not detected	100		ug/kg	66.3	124-48-1		
1,2-Dibromoethane	Not detected	30		ug/kg	66.3	106-93-4	M	
Chlorobenzene	Not detected	70		ug/kg	66.3	108-90-7		
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	66.3	630-20-6		
Ethylbenzene	Not detected	70		ug/kg	66.3	100-41-4		
p,m-Xylene	Not detected	100		ug/kg	66.3			
o-Xylene	Not detected	70		ug/kg	66.3	95-47-6		
Styrene	Not detected	70		ug/kg	66.3	100-42-5		
Isopropylbenzene	Not detected	300		ug/kg	66.3	98-82-8		
Bromoform	Not detected	100		ug/kg	66.3	75-25-2		
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	66.3	79-34-5		
1,2,3-Trichloropropane	Not detected	100		ug/kg	66.3	96-18-4		
n-Propylbenzene	Not detected	70		ug/kg	66.3	103-65-1		
Bromobenzene	Not detected	100		ug/kg	66.3	108-86-1		
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	66.3	108-67-8		
tert-Butylbenzene	Not detected	70		ug/kg	66.3	98-06-6		
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	66.3	95-63-6		
sec-Butylbenzene	Not detected	70		ug/kg	66.3	135-98-8		
p-Isopropyltoluene	Not detected	100		ug/kg	66.3	99-87-6		
1,3-Dichlorobenzene	Not detected	100		ug/kg	66.3	541-73-1		
1,4-Dichlorobenzene	Not detected	100		ug/kg	66.3	106-46-7		
1,2-Dichlorobenzene	Not detected	100		ug/kg	66.3	95-50-1		
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	66.3	526-73-8		
n-Butylbenzene	Not detected	70		ug/kg	66.3	104-51-8		
Hexachloroethane	Not detected	400		ug/kg	66.3	67-72-1		
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	66.3	96-12-8		
1,2,4-Trichlorobenzene	Not detected	440		ug/kg	66.3	120-82-1		
1,2,3-Trichlorobenzene	Not detected	440		ug/kg	66.3	87-61-6		
Naphthalene	Not detected	300		ug/kg	66.3	91-20-3		
2-Methylnaphthalene	Not detected	100		ug/kg	66.3	91-57-6		

M-Result reported to MDL not RDL

Lab Sample ID: S14903.06
Sample Tag: SB-84-20(3-5)_061520
Collected Date/Time: 06/15/2020 10:20
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR
1	40ml Glass	MeOH	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	8.093/10	SW5035A	06/18/20 11:50	JML	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	97	1		%	1			

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 21:49, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	300		ug/kg	65.2	60-29-7		
Acetone	Not detected	1,000		ug/kg	65.2	67-64-1		
Methyl iodide	Not detected	100		ug/kg	65.2	74-88-4		
Carbon disulfide	Not detected	300		ug/kg	65.2	75-15-0		
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	65.2	1634-04-4		
Acrylonitrile	Not detected	100		ug/kg	65.2	107-13-1		
2-Butanone (MEK)	Not detected	980		ug/kg	65.2	78-93-3		
Dichlorodifluoromethane	Not detected	300		ug/kg	65.2	75-71-8		
Chloromethane	Not detected	300		ug/kg	65.2	74-87-3		
Vinyl chloride	Not detected	70		ug/kg	65.2	75-01-4		
Bromomethane	Not detected	300		ug/kg	65.2	74-83-9		
Chloroethane	Not detected	300		ug/kg	65.2	75-00-3		
Trichlorofluoromethane	Not detected	100		ug/kg	65.2	75-69-4		
1,1-Dichloroethene	Not detected	70		ug/kg	65.2	75-35-4		
Methylene chloride	Not detected	100		ug/kg	65.2	75-09-2		
trans-1,2-Dichloroethene	Not detected	70		ug/kg	65.2	156-60-5		
1,1-Dichloroethane	Not detected	70		ug/kg	65.2	75-34-3		
cis-1,2-Dichloroethene	Not detected	70		ug/kg	65.2	156-59-2		
Tetrahydrofuran*	Not detected	1,000		ug/kg	65.2	109-99-9		
Chloroform	Not detected	70		ug/kg	65.2	67-66-3		
Bromochloromethane	Not detected	100		ug/kg	65.2	74-97-5		
1,1,1-Trichloroethane	Not detected	70		ug/kg	65.2	71-55-6		
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	65.2	108-10-1		
2-Hexanone	Not detected	3,000		ug/kg	65.2	591-78-6		
Carbon tetrachloride	Not detected	70		ug/kg	65.2	56-23-5		
Benzene	Not detected	70		ug/kg	65.2	71-43-2		
1,2-Dichloroethane	Not detected	70		ug/kg	65.2	107-06-2		
Trichloroethene	1,460	70		ug/kg	65.2	79-01-6		
1,2-Dichloropropane	Not detected	70		ug/kg	65.2	78-87-5		
Bromodichloromethane	Not detected	100		ug/kg	65.2	75-27-4		
Dibromomethane	Not detected	300		ug/kg	65.2	74-95-3		

Lab Sample ID: S14903.06 (continued)
Sample Tag: SB-84-20(3-5)_061520

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 21:49, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
cis-1,3-Dichloropropene	Not detected	70		ug/kg	65.2	10061-01-5		
Toluene	Not detected	70		ug/kg	65.2	108-88-3		
trans-1,3-Dichloropropene	Not detected	70		ug/kg	65.2	10061-02-6		
1,1,2-Trichloroethane	Not detected	70		ug/kg	65.2	79-00-5		
Tetrachloroethene	Not detected	70		ug/kg	65.2	127-18-4		
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	65.2	110-57-6		
Dibromochloromethane	Not detected	100		ug/kg	65.2	124-48-1		
1,2-Dibromoethane	Not detected	30		ug/kg	65.2	106-93-4	M	
Chlorobenzene	Not detected	70		ug/kg	65.2	108-90-7		
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	65.2	630-20-6		
Ethylbenzene	Not detected	70		ug/kg	65.2	100-41-4		
p,m-Xylene	Not detected	100		ug/kg	65.2			
o-Xylene	Not detected	70		ug/kg	65.2	95-47-6		
Styrene	Not detected	70		ug/kg	65.2	100-42-5		
Isopropylbenzene	Not detected	300		ug/kg	65.2	98-82-8		
Bromoform	Not detected	100		ug/kg	65.2	75-25-2		
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	65.2	79-34-5		
1,2,3-Trichloropropane	Not detected	100		ug/kg	65.2	96-18-4		
n-Propylbenzene	Not detected	70		ug/kg	65.2	103-65-1		
Bromobenzene	Not detected	100		ug/kg	65.2	108-86-1		
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	65.2	108-67-8		
tert-Butylbenzene	Not detected	70		ug/kg	65.2	98-06-6		
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	65.2	95-63-6		
sec-Butylbenzene	Not detected	70		ug/kg	65.2	135-98-8		
p-Isopropyltoluene	Not detected	100		ug/kg	65.2	99-87-6		
1,3-Dichlorobenzene	Not detected	100		ug/kg	65.2	541-73-1		
1,4-Dichlorobenzene	Not detected	100		ug/kg	65.2	106-46-7		
1,2-Dichlorobenzene	Not detected	100		ug/kg	65.2	95-50-1		
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	65.2	526-73-8		
n-Butylbenzene	Not detected	70		ug/kg	65.2	104-51-8		
Hexachloroethane	Not detected	400		ug/kg	65.2	67-72-1		
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	65.2	96-12-8		
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	65.2	120-82-1		
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	65.2	87-61-6		
Naphthalene	500	300		ug/kg	65.2	91-20-3		
2-Methylnaphthalene	400	100		ug/kg	65.2	91-57-6		

M-Result reported to MDL not RDL

Lab Sample ID: S14903.07
Sample Tag: SB-84-23(1-3)_061520
Collected Date/Time: 06/15/2020 10:50
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	94	1		%	1			

Metals

Method: SW6020A, Run Date: 06/19/20 12:12, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Arsenic	1.89	0.20		mg/kg	220	7440-38-2		

Lab Sample ID: S14903.08
Sample Tag: SB-84-23(3-5)_061520
Collected Date/Time: 06/15/2020 10:55
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	89	1		%	1			

Metals

Method: SW6020A, Run Date: 06/19/20 12:10, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Arsenic	1.79	0.20		mg/kg	229	7440-38-2		

Lab Sample ID: S14903.09
Sample Tag: SB-81-53(1-3)_061520
Collected Date/Time: 06/15/2020 11:55
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/17/20 12:00	TV	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/18/20 17:57, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S14903.10
Sample Tag: SB-81-53(3-5)_061520
Collected Date/Time: 06/15/2020 12:00
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/19/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	81	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/22/20 14:18, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S14903.11
Sample Tag: SB-81-54(1-3)_061520
Collected Date/Time: 06/15/2020 12:30
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/19/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/22/20 14:30, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	30	12674-11-2		
PCB-1242	Not detected	330		ug/kg	30	53469-21-9		
PCB-1221	Not detected	330		ug/kg	30	11104-28-2		
PCB-1232	Not detected	330		ug/kg	30	11141-16-5		
PCB-1248	Not detected	330		ug/kg	30	12672-29-6		
PCB-1254	600	330		ug/kg	30	11097-69-1		
PCB-1260	Not detected	330		ug/kg	30	11096-82-5		

Lab Sample ID: S14903.12
Sample Tag: SB-81-54(3-5)_061520
Collected Date/Time: 06/15/2020 12:35
Matrix: Soil
COC Reference: 128666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/19/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	93	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/22/20 16:17, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y	
PCB-1242	Not detected	1,000		ug/kg	200	53469-21-9	Y	
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y	
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y	
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y	
PCB-1254	7,000	1,000		ug/kg	200	11097-69-1	Y	
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S14903.13
Sample Tag: SB-10-81(1.5-3)_061520
Collected Date/Time: 06/15/2020 13:30
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/19/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	95	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/22/20 14:42, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	2,000		ug/kg	300	12674-11-2	Y	
PCB-1242	Not detected	2,000		ug/kg	300	53469-21-9	Y	
PCB-1221	Not detected	2,000		ug/kg	300	11104-28-2	Y	
PCB-1232	Not detected	2,000		ug/kg	300	11141-16-5	Y	
PCB-1248	Not detected	2,000		ug/kg	300	12672-29-6	Y	
PCB-1254	14,000	2,000		ug/kg	300	11097-69-1	Y	
PCB-1260	Not detected	2,000		ug/kg	300	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S14903.14
Sample Tag: SB-10-81(3-5)_061520
Collected Date/Time: 06/15/2020 13:35
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/19/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/22/20 15:13, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	3,000		ug/kg	500	12674-11-2	Y	
PCB-1242	Not detected	3,000		ug/kg	500	53469-21-9	Y	
PCB-1221	Not detected	3,000		ug/kg	500	11104-28-2	Y	
PCB-1232	Not detected	3,000		ug/kg	500	11141-16-5	Y	
PCB-1248	Not detected	3,000		ug/kg	500	12672-29-6	Y	
PCB-1254	23,000	3,000		ug/kg	500	11097-69-1	Y	
PCB-1260	Not detected	3,000		ug/kg	500	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S14903.15
Sample Tag: SB-10-82(1-3)_061520
Collected Date/Time: 06/15/2020 13:55
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/19/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	95	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/22/20 15:37, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S14903.16
Sample Tag: SB-10-82(3.5-5)_061520
Collected Date/Time: 06/15/2020 14:00
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/19/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	70	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/22/20 15:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S14903.17
Sample Tag: SB-10-80(1-3)_061520
Collected Date/Time: 06/15/2020 14:20
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/19/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	94	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/22/20 15:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	3,000		ug/kg	500	12674-11-2	Y	
PCB-1242	Not detected	3,000		ug/kg	500	53469-21-9	Y	
PCB-1221	Not detected	3,000		ug/kg	500	11104-28-2	Y	
PCB-1232	Not detected	3,000		ug/kg	500	11141-16-5	Y	
PCB-1248	Not detected	3,000		ug/kg	500	12672-29-6	Y	
PCB-1254	18,000	3,000		ug/kg	500	11097-69-1	Y	
PCB-1260	Not detected	3,000		ug/kg	500	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S14903.18
Sample Tag: SB-10-80(3-5)_061520
Collected Date/Time: 06/15/2020 14:25
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/22/20 12:00	TV	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/22/20 16:31, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	500	12674-11-2	Y	
PCB-1242	Not detected	330		ug/kg	500	53469-21-9	Y	
PCB-1221	Not detected	330		ug/kg	500	11104-28-2	Y	
PCB-1232	Not detected	330		ug/kg	500	11141-16-5	Y	
PCB-1248	Not detected	330		ug/kg	500	12672-29-6	Y	
PCB-1254	17,000	3,000		ug/kg	500	11097-69-1	Y	
PCB-1260	Not detected	330		ug/kg	500	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S14903.19
Sample Tag: RFI-83/84-16R(2.8-4.8)_061620
Collected Date/Time: 06/16/2020 09:30
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.01	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	1.67	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.87	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	85	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 15:46, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	12,200	0.30		mg/kg	11500	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 11:37, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	27.4	0.03		mg/L	99	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S14903.20
Sample Tag: RFI-83/84-35R(1-3)_061620
Collected Date/Time: 06/16/2020 08:50
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 15:56, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	67.6	0.30		mg/kg	216	7439-92-1		

Lab Sample ID: S14903.21
Sample Tag: RFI-83/84-17R2(1-3)_061620
Collected Date/Time: 06/16/2020 09:50
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.50	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	1.64	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.51	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:00, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	13,000	0.30		mg/kg	10850	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 11:40, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	75.3	0.03		mg/L	100	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S14903.22
Sample Tag: RFI-83/84-05R(1-3)_061620
Collected Date/Time: 06/16/2020 10:10
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:06, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	7.50	0.30		mg/kg	224	7439-92-1		

Lab Sample ID: S14903.23
Sample Tag: RFI-83/84-05R(3-5)_061620
Collected Date/Time: 06/16/2020 10:15
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.69	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	1.65	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.44	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:03, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	20,000	0.30		mg/kg	11300	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 11:41, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	11.3	0.03		mg/L	97	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S14903.24
Sample Tag: SB-83/84-54(1-2)_061620
Collected Date/Time: 06/16/2020 11:10
Matrix: Soil
COC Reference: 128667

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:12, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	57.1	0.30		mg/kg	223	7439-92-1		

Lab Sample ID: S14903.25
Sample Tag: SB-83/84-54(2-4)_061620
Collected Date/Time: 06/16/2020 11:15
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	94	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:13, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	86.4	0.30		mg/kg	222	7439-92-1		

Lab Sample ID: S14903.26
Sample Tag: SB-83/84-04R(1-2)_061620
Collected Date/Time: 06/16/2020 11:40
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	9.66	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	2.00	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	5.67	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:15, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	29.1	0.30		mg/kg	215	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 11:42, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	0.04	0.03		mg/L	100	7439-92-1		5.0

Lab Sample ID: S14903.27
Sample Tag: SB-83/84-04R(2-4)_061620
Collected Date/Time: 06/16/2020 11:45
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	97	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:33, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	3.81	0.30		mg/kg	213	7439-92-1		

Lab Sample ID: S14903.28
Sample Tag: SB-83/84-04R(4-6)_061620
Collected Date/Time: 06/16/2020 11:50
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:34, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	10.9	0.30		mg/kg	223	7439-92-1		

Lab Sample ID: S14903.29
Sample Tag: SB-83/84-04R(6.2-8)_061620
Collected Date/Time: 06/16/2020 11:55
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:40, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	0.93	0.30		mg/kg	236	7439-92-1		

Lab Sample ID: S14903.30
Sample Tag: SB-83/84-04R(8-10)_061620
Collected Date/Time: 06/16/2020 12:00
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	83	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 17:16, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	3.39	0.30		mg/kg	234	7439-92-1		

Lab Sample ID: S14903.31
Sample Tag: SB-83/84-53(2.5-4)_061620
Collected Date/Time: 06/16/2020 13:10
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/30/20 12:20	CCM	
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	7.50	SW1311	07/28/20 18:40 - 07/29/20	DJB	
pH after 3.5 ml HCl	3.69	SW1311	07/28/20 18:40 - 07/29/20	DJB	
% Solids	100	SW1311	07/28/20 18:40 - 07/29/20	DJB	
Sample Used g	40	SW1311	07/28/20 18:40 - 07/29/20	DJB	
Final Volume mL	800	SW1311	07/28/20 18:40 - 07/29/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/28/20 18:40 - 07/29/20	DJB	
Final Extract pH	4.88	SW1311	07/28/20 18:40 - 07/29/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/17/20 15:35, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	85	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:48, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	385,000	0.30		mg/kg	120500	7439-92-1		

Method: SW6020A, Run Date: 07/30/20 13:58, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	987	0.30		mg/L	250	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S14903.32
Sample Tag: SB-83/84-53(4-6)_061620
Collected Date/Time: 06/16/2020 13:15
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 18:31, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	83	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:46, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	32.0	0.30		mg/kg	234	7439-92-1		

Lab Sample ID: S14903.33
Sample Tag: SB-83/84-37R(2.5-5)_061620
Collected Date/Time: 06/16/2020 13:50
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 18:31, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:50, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	230	0.30		mg/kg	11550	7439-92-1		

Lab Sample ID: S14903.34
Sample Tag: SB-83/84-51(1-3)_061620
Collected Date/Time: 06/16/2020 14:30
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.62	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	1.72	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.48	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/17/20 18:31, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:52, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	1,400	0.30		mg/kg	11600	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 11:43, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	37.0	0.03		mg/L	100	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S14903.35
Sample Tag: SB-83/84-51(3-5)_061620
Collected Date/Time: 06/16/2020 14:35
Matrix: Soil
COC Reference: 134523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.46	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	1.61	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.35	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/17/20 18:31, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:53, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	1,730	0.30		mg/kg	11600	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 11:44, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	20.9	0.03		mg/L	99	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S14903.36
Sample Tag: SB-83/84-51(5-7)_061620
Collected Date/Time: 06/16/2020 14:40
Matrix: Soil
COC Reference: 134521

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/18/20 15:00	JRH	

Inorganics

Method: SM2540B, Run Date: 06/17/20 18:31, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Metals

Method: SW6020A, Run Date: 06/18/20 16:56, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	4.69	0.30		mg/kg	233	7439-92-1		

Merit Laboratories Login Checklist

Lab Set ID: S14903
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: Buick City - RC Delineation
Submitted: 06/17/2020 08:15 Login User: SRS

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.3
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[ ] Yes	[X] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 4

128666

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: M.Macki/MC Goddard/M.Humphrey/E.Kozak/J.Barker
COMPANY: 28550 Cabot Dr. suite#500
ADDRESS: Arcadis
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 FAX NO.: P.O. NO.: 30043300
E-MAIL ADDRESS: joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: Buckeye - RC Delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Ellen Redner/ER

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	Arsenic	PCBs
14903.01	6/15/20	0900	SB-84-21(1-3)_061520	S	2	1					1		X		
.02		0920	SB-84-21(3-5)_061520		2	1					1		X		
.03		0945	SB-84-22(1-3)_061520		2	1					1		X		
.04		0950	SB-84-22(3-5)_061520		2	1					1		X		
.05		1015	SB-84-20(1-3)_061520		2	1					1		X		
.06		1020	SB-84-20(3-5)_061520		2	1					1		X		
.07		1050	SB-84-23(1-3)_061520		1	1								X	
.08		1055	SB-84-23(3-5)_061520		1	1								X	
.09		1155	SB-81-53(1-3)_061520		1	1									X
.10		1200	SB-81-53(3-5)_061520		1	1									X
.11		1230	SB-81-54(1-3)_061520		1	1									X
.12	↓	1235	SB-81-54(3-5)_061520	↓	1	1									X

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE	TIME
Ellen Redner		6/16/2020	1655
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
Merit Labs		6/16/2020	1655
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
		6/16/20	1655

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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C.O.C. PAGE # 2 OF 4

128667

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: M.Macki/MC Goddard/M.Humphrey/E.Kozak/J.Barker
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr., Suite #500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248-790-5218 | FAX NO.: | P.O. NO.: 30043300
E-MAIL ADDRESS: Joey.Barker@arcadis.com | QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | E-MAIL ADDRESS:

PROJECT NO./NAME: Buick City - RC Delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Ellen Rechner/ERechner

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	Lead (total) TCLP	Special Instructions
14903.13	6/15/20	1330	SB-10-81(1.5-3)_061520	S	1	X							X		
.14		1335	SB-10-81(3-5)_061520												
.15		1355	SB-10-82(1-3)_061520												
.16		1400	SB-10-82(3.5-5)_061520												
.17		1420	SB-10-80(1-3)_061520												
.18		1425	SB-10-80(3-5)_061520												
.19	6/16/20	0930	RFI-83/84-16R(2.8-4.8)_061620											X	Hold For TCLP
.20		0850	RFI-83/84-35R(1-3)_061620											X	"
.21		0950	RFI-83/84-17R2(1-3)_061620												
.22		1010	RFI-83/84-05R(1-3)_061620												
.23		1015	RFI-83/84-05R(3-5)_061620												
.24		1110	SB-83/84-54(1-2)_061620												

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE	TIME
EQuipment Blank		6/16/2020	1655
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
Merit Labs		6/16/2020	1655
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
[signature]		6/16/20	1655

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: TEMP. ON ARRIVAL 4.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

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C.O.C. PAGE # 3 OF 4

134523

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: M. Macki / MC Goddard / M. Humphrey / E. Rozak / J. Barker
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr., Suite #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 FAX NO.:
P.O. NO.: ~~400~~ ER
E-MAIL ADDRESS: joly.barker@arcadis.com
QUOTE NO.: 30043300

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: Buick City - RC Delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Ellen Redner / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Lead (Total) TCLP	Special Instructions
14903.25	6/16/20	1115	SB-83/84-54(2-4)_061620	S	1	X							X	Hold For TCLP
.26		1140	SB-83/84-04R(1-2)_061620											"
.27		1145	SB-83/84-04R(2-4)_061620											"
.28		1150	SB-83/84-04R(4-6)_061620											"
.29		1155	SB-83/84-04R(6-8)_061620											"
.30		1200	SB-83/84-04R(8-10)_061620											"
~~.31~~		~~1305~~	~~SB-83/84-53(0-2.5)_061620~~ ER											
.31		1310	SB-83/84-53(2.5-4)_061620											"
.32		1315	SB-83/84-53(4-6)_061620											"
.33		1350	RFI-83/84-37R(2.5-5)_061620											"
.34		1430	SB-83/84-51(1-3)_061620											"
.35		1435	SB-83/84-51(3-5)_061620											"

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE	TIME
[signature]		6/16/2020	1655
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
Merit Labs		6/16/2020	1655
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
[signature]		6/16/20	1655

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 4.3
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

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C.O.C. PAGE # 4 OF 4

134521

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: m.macki / mc Goddard / m. Humphrey / E. Kozak / J. Barker
COMPANY: 28550 Cabot Dr. Suite #500
ADDRESS: Arcadis
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO: 248-790-5218 | FAX NO. | P.O. NO.: 30043300
E-MAIL ADDRESS: Joey.Barker@arcadis.com | QUOTE NO.

INVOICE TO

CONTACT NAME | ☐ SAME
COMPANY
ADDRESS
CITY | STATE | ZIP CODE
PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME: Buick City - RC Delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Ellen Redner / ER

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

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☐ OHIO VAP ☐ Drinking Water
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Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Lead (TOTAL) TCLP	Special Instructions
14903.36	6/16/20	1440	SB-83184-5(5-7)_061620	S	1	X							X	Hold For TCLP

RELINQUISHED BY: SIGNATURE/ORGANIZATION: ER ☒ Sampler | DATE: 6/16/2020 | TIME: 1655
RECEIVED BY: SIGNATURE/ORGANIZATION: Merit Labs | DATE: 6/16/2020 | TIME: 1655
RELINQUISHED BY: SIGNATURE/ORGANIZATION | DATE | TIME
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature] | DATE: 6/16/20 | TIME: 1655

RELINQUISHED BY: SIGNATURE/ORGANIZATION | DATE | TIME
RECEIVED BY: SIGNATURE/ORGANIZATION | DATE | TIME

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: TEMP. ON ARRIVAL 4.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Supplemental Report

Report ID: S15013.01(03)
Generated on 07/10/2020
Replaces report S15013.01(02) generated on 07/06/2020

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Megan Humphrey, Micki Maki, Joey Barker, Mary-Catherine Goddard, Chris Peters

Report Summary

Lab Sample ID(s): S15013.01-S15013.45
Project: Buick City - RC Delineation
Collected Date(s): 06/17/2020 - 06/18/2020
Submitted Date/Time: 06/19/2020 13:30
Sampled by: Ellen Redner
P.O. #: 30043300

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

TCLP lead added to samples .07, .12, and .17 per client request

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW1311	SW 846 Method 1311 Revision 0 July 1992
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW5035A	SW 846 Method 5035A Revision 1 July 2002
SW5035A/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5035A Revision 1 July 2002
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (45 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S15013.01	SB-83/84-52(1-3)_061720	Soil	06/17/20 08:40
S15013.02	SB-83/84-52(3-5)_061720	Soil	06/17/20 08:45
S15013.03	SB-83/84-52(5-7)_061720	Soil	06/17/20 08:50
S15013.04	SB-83/84-56(1-3)_061720	Soil	06/17/20 09:20
S15013.05	SB-83/84-56(3-5)_061720	Soil	06/17/20 09:25
S15013.06	SB-83/84-56(5-7)_061720	Soil	06/17/20 09:30
S15013.07	RFI-83/84-04R(1-2)_061720	Soil	06/17/20 09:50
S15013.08	RFI-83/84-14R(1-2)_061720	Soil	06/17/20 10:00
S15013.09	RFI-83/84-40R(1-3)_061720	Soil	06/17/20 10:20
S15013.10	RFI-83/84-12R(3-5)_061720	Soil	06/17/20 10:40
S15013.11	SB-83/84-57(1-2.8)_061720	Soil	06/17/20 11:05
S15013.12	SB-83/84-57(3-5)_061720	Soil	06/17/20 11:10
S15013.13	SB-83/84-57(5-7)_061720	Soil	06/17/20 11:15
S15013.14	RFI-83/84-24R(5-7)_061720	Soil	06/17/20 12:55
S15013.15	SB-83/84-50(3-5)_061720	Soil	06/17/20 14:00
S15013.16	SB-83/84-50(5-7)_061720	Soil	06/17/20 14:05
S15013.17	SB-83/84-50(7-9)_061720	Soil	06/17/20 14:10
S15013.18	RFI-83/84-23R(5-7)_061720	Soil	06/17/20 14:35
S15013.19	SB-83/84-49(1-3)_061720	Soil	06/17/20 15:35
S15013.20	SB-83/84-49(5-7)_061720	Soil	06/17/20 15:40
S15013.21	SB-83/84-49(7-9)_061720	Soil	06/17/20 15:45
S15013.22	SB-83/84-49(9-11)_061720	Soil	06/17/20 15:50
S15013.23	RFI-83/84-21R(7-9)_061820	Soil	06/18/20 08:40
S15013.24	SB-83/84-55(1-3)_061820	Soil	06/18/20 09:10
S15013.25	SB-83/84-55(3-5)_061820	Soil	06/18/20 09:15
S15013.26	SB-83/84-55(5-7)_061820	Soil	06/18/20 09:20
S15013.27	SB-83/84-55(7-9)_061820	Soil	06/18/20 09:25
S15013.28	SB-83/84-55(9-11)_061820	Soil	06/18/20 09:30
S15013.29	SB-83/84-48(1-3)_061820	Soil	06/18/20 09:55
S15013.30	SB-83/84-48(5-7)_061820	Soil	06/18/20 10:00
S15013.31	SB-83/84-48(7-9)_061820	Soil	06/18/20 10:05
S15013.32	SB-83/84-48(9-11)_061820	Soil	06/18/20 10:10
S15013.33	SB-10-79(1-3)_061820	Soil	06/18/20 11:10
S15013.34	SB-10-79(4-6)_061820	Soil	06/18/20 11:15
S15013.35	SB-10-78(1-3)_061820	Soil	06/18/20 11:50
S15013.36	SB-10-78(4-6)_061820	Soil	06/18/20 11:55
S15013.37	SB-10-79(6-8)_061820	Soil	06/18/20 13:00
S15013.38	SB-10-78(6-7)_061820	Soil	06/18/20 13:25
S15013.39	SB-84-32(1-3)_061820	Soil	06/18/20 14:00
S15013.40	SB-84-32(3-5)_061820	Soil	06/18/20 14:05
S15013.41	SB-84-33(1-3)_061820	Soil	06/18/20 14:35
S15013.42	SB-84-33(3-5)_061820	Soil	06/18/20 14:40
S15013.43	SB-84-34(1-3)_061820	Soil	06/18/20 15:20
S15013.44	SB-84-34(3-5)_061820	Soil	06/18/20 15:25
S15013.45	Trip Blanks	Methanol	06/18/20 00:01

Lab Sample ID: S15013.01
Sample Tag: SB-83/84-52(1-3)_061720
Collected Date/Time: 06/17/2020 08:40
Matrix: Soil
COC Reference: 134524

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.69	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	1.68	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.46	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	89	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 14:46, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	5,210	0.30		mg/kg	235	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 11:45, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	420	0.03		mg/L	100	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S15013.02
Sample Tag: SB-83/84-52(3-5)_061720
Collected Date/Time: 06/17/2020 08:45
Matrix: Soil
COC Reference: 134524

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 14:51, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	49.6	0.30		mg/kg	213	7439-92-1		

Lab Sample ID: S15013.03
Sample Tag: SB-83/84-52(5-7)_061720
Collected Date/Time: 06/17/2020 08:50
Matrix: Soil
COC Reference: 134524

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	89	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 14:54, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	4.85	0.30		mg/kg	223	7439-92-1		

Lab Sample ID: S15013.04
Sample Tag: SB-83/84-56(1-3)_061720
Collected Date/Time: 06/17/2020 09:20
Matrix: Soil
COC Reference: 134524

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	96	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 14:56, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	11.9	0.30		mg/kg	213	7439-92-1		

Lab Sample ID: S15013.05
Sample Tag: SB-83/84-56(3-5)_061720
Collected Date/Time: 06/17/2020 09:25
Matrix: Soil
COC Reference: 134524

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.79	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	2.09	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	5.06	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 14:59, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	992	0.30		mg/kg	235	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 11:55, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	48.2	0.03		mg/L	99	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S15013.06
Sample Tag: SB-83/84-56(5-7)_061720
Collected Date/Time: 06/17/2020 09:30
Matrix: Soil
COC Reference: 134524

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.27	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	1.53	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.50	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	82	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 15:02, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	161	0.30		mg/kg	233	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 12:15, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	0.10	0.03		mg/L	100	7439-92-1		5.0

Lab Sample ID: S15013.07
Sample Tag: RFI-83/84-04R(1-2)_061720
Collected Date/Time: 06/17/2020 09:50
Matrix: Soil
COC Reference: 134524

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/10/20 09:45	JRH	
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.98	SW1311	07/08/20 17:32 - 07/09/20	DJB	
pH after 3.5 ml HCl	1.67	SW1311	07/08/20 17:32 - 07/09/20	DJB	
% Solids	100	SW1311	07/08/20 17:32 - 07/09/20	DJB	
Sample Used g	40	SW1311	07/08/20 17:32 - 07/09/20	DJB	
Final Volume mL	800	SW1311	07/08/20 17:32 - 07/09/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/08/20 17:32 - 07/09/20	DJB	
Final Extract pH	4.29	SW1311	07/08/20 17:32 - 07/09/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 15:04, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	15,600	0.30		mg/kg	236	7439-92-1		

Method: SW6020A, Run Date: 07/10/20 12:37, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	244	0.03		mg/L	25	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S15013.08
Sample Tag: RFI-83/84-14R(1-2)_061720
Collected Date/Time: 06/17/2020 10:00
Matrix: Soil
COC Reference: 134524

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.25	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	4.63	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	5.16	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 17:04, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	4,780	0.30		mg/kg	1180	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 11:48, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	1.20	0.03		mg/L	99	7439-92-1		5.0

Lab Sample ID: S15013.09
Sample Tag: RFI-83/84-40R(1-3)_061720
Collected Date/Time: 06/17/2020 10:20
Matrix: Soil
COC Reference: 134524

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	9.00	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	8.25	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	2	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.59	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	84	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 15:13, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	1,360	0.30		mg/kg	249	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 12:00, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	4.76	0.03		mg/L	99	7439-92-1		5.0

Lab Sample ID: S15013.10
Sample Tag: RFI-83/84-12R(3-5)_061720
Collected Date/Time: 06/17/2020 10:40
Matrix: Soil
COC Reference: 134524

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	7.83	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	7.67	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	2	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.43	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 15:16, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	4,500	0.30		mg/kg	224	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 12:01, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	10.4	0.03		mg/L	98	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S15013.11
Sample Tag: SB-83/84-57(1-2.8)_061720
Collected Date/Time: 06/17/2020 11:05
Matrix: Soil
COC Reference: 134524

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.98	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	8.72	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	2	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.93	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	94	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 15:33, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	585	0.30		mg/kg	206	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 12:02, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	3.74	0.03		mg/L	98	7439-92-1		5.0

Lab Sample ID: S15013.12
Sample Tag: SB-83/84-57(3-5)_061720
Collected Date/Time: 06/17/2020 11:10
Matrix: Soil
COC Reference: 134524

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/10/20 09:45	JRH	
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.06	SW1311	07/08/20 17:32 - 07/09/20	DJB	
pH after 3.5 ml HCl	1.63	SW1311	07/08/20 17:32 - 07/09/20	DJB	
% Solids	100	SW1311	07/08/20 17:32 - 07/09/20	DJB	
Sample Used g	40	SW1311	07/08/20 17:32 - 07/09/20	DJB	
Final Volume mL	800	SW1311	07/08/20 17:32 - 07/09/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/08/20 17:32 - 07/09/20	DJB	
Final Extract pH	4.23	SW1311	07/08/20 17:32 - 07/09/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 15:36, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	1,000	0.30		mg/kg	230	7439-92-1		

Method: SW6020A, Run Date: 07/10/20 12:39, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	158	0.03		mg/L	25	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S15013.13
Sample Tag: SB-83/84-57(5-7)_061720
Collected Date/Time: 06/17/2020 11:15
Matrix: Soil
COC Reference: 134525

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.81	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	8.18	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	2	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.36	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	77	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 15:38, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	548	0.30		mg/kg	270	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 12:07, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	2,200	0.50		mg/L	4950	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S15013.14
Sample Tag: RFI-83/84-24R(5-7)_061720
Collected Date/Time: 06/17/2020 12:55
Matrix: Soil
COC Reference: 134525

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.24	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	7.71	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	2	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.84	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 16:09, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	7,270	0.30		mg/kg	1145	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 12:09, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	2.22	0.03		mg/L	99	7439-92-1		5.0

Lab Sample ID: S15013.15
Sample Tag: SB-83/84-50(3-5)_061720
Collected Date/Time: 06/17/2020 14:00
Matrix: Soil
COC Reference: 134525

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	96	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 15:43, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	2.58	0.30		mg/kg	216	7439-92-1		

Lab Sample ID: S15013.16
Sample Tag: SB-83/84-50(5-7)_061720
Collected Date/Time: 06/17/2020 14:05
Matrix: Soil
COC Reference: 134525

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	82	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 15:46, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	27.7	0.30		mg/kg	234	7439-92-1		

Lab Sample ID: S15013.17
Sample Tag: SB-83/84-50(7-9)_061720
Collected Date/Time: 06/17/2020 14:10
Matrix: Soil
COC Reference: 134525

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/10/20 09:45	JRH	
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	8.18	SW1311	07/08/20 17:32 - 07/09/20	DJB	
pH after 3.5 ml HCl	1.70	SW1311	07/08/20 17:32 - 07/09/20	DJB	
% Solids	100	SW1311	07/08/20 17:32 - 07/09/20	DJB	
Sample Used g	40	SW1311	07/08/20 17:32 - 07/09/20	DJB	
Final Volume mL	800	SW1311	07/08/20 17:32 - 07/09/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/08/20 17:32 - 07/09/20	DJB	
Final Extract pH	4.72	SW1311	07/08/20 17:32 - 07/09/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	83	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 15:48, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	1,150	0.30		mg/kg	250	7439-92-1		

Method: SW6020A, Run Date: 07/10/20 12:40, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	8.96	0.03		mg/L	25	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S15013.18
Sample Tag: RFI-83/84-23R(5-7)_061720
Collected Date/Time: 06/17/2020 14:35
Matrix: Soil
COC Reference: 134525

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	7.97	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	1.78	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	5.06	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 17:06, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	9,450	0.30		mg/kg	1070	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 12:10, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	0.75	0.03		mg/L	100	7439-92-1		5.0

Lab Sample ID: S15013.19
Sample Tag: SB-83/84-49(1-3)_061720
Collected Date/Time: 06/17/2020 15:35
Matrix: Soil
COC Reference: 134525

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	99	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 15:53, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	3.44	0.30		mg/kg	209	7439-92-1		

Lab Sample ID: S15013.20
Sample Tag: SB-83/84-49(5-7)_061720
Collected Date/Time: 06/17/2020 15:40
Matrix: Soil
COC Reference: 134525

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/23/20 14:30	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	7.57	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	1.99	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.85	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 15:58, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	9,840	0.30		mg/kg	454	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 12:12, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	3.27	0.03		mg/L	101	7439-92-1		5.0

Lab Sample ID: S15013.21
Sample Tag: SB-83/84-49(7-9)_061720
Collected Date/Time: 06/17/2020 15:45
Matrix: Soil
COC Reference: 134525

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/23/20 15:05	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	7.80	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	1.61	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	4.34	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 16:19, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	9,590	0.30		mg/kg	1480	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 12:13, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	86.4	0.03		mg/L	98	7439-92-1	!	5.0

!-Result is outside of stated limit criteria

Lab Sample ID: S15013.22
Sample Tag: SB-83/84-49(9-11)_061720
Collected Date/Time: 06/17/2020 15:50
Matrix: Soil
COC Reference: 134525

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/23/20 15:05	JRH	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 16:22, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	33.1	0.30		mg/kg	300	7439-92-1		

Lab Sample ID: S15013.23
Sample Tag: RFI-83/84-21R(7-9)_061820
Collected Date/Time: 06/18/2020 08:40
Matrix: Soil
COC Reference: 134525

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	07/06/20 10:30	JRH	
Metal Digestion	Completed	SW3050B	06/23/20 15:05	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	7.66	SW1311	07/01/20 18:34 - 07/02/20	DJB	
pH after 3.5 ml HCl	2.03	SW1311	07/01/20 18:34 - 07/02/20	DJB	
% Solids	100	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Sample Used g	40	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Volume mL	800	SW1311	07/01/20 18:34 - 07/02/20	DJB	
TCLP Extraction Fluid	1	SW1311	07/01/20 18:34 - 07/02/20	DJB	
Final Extract pH	6.35	SW1311	07/01/20 18:34 - 07/02/20	DJB	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	89	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 16:30, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	590	0.30		mg/kg	1650	7439-92-1		

Method: SW6020A, Run Date: 07/06/20 12:14, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	0.31	0.03		mg/L	98	7439-92-1		5.0

Lab Sample ID: S15013.24
Sample Tag: SB-83/84-55(1-3)_061820
Collected Date/Time: 06/18/2020 09:10
Matrix: Soil
COC Reference: 134525

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/23/20 15:05	JRH	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	95	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 16:26, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	3.84	0.30		mg/kg	244	7439-92-1		

Lab Sample ID: S15013.25
Sample Tag: SB-83/84-55(3-5)_061820
Collected Date/Time: 06/18/2020 09:15
Matrix: Soil
COC Reference: 134526

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/23/20 15:05	JRH	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 16:36, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	19.1	0.30		mg/kg	322	7439-92-1		

Lab Sample ID: S15013.26
Sample Tag: SB-83/84-55(5-7)_061820
Collected Date/Time: 06/18/2020 09:20
Matrix: Soil
COC Reference: 134526

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/23/20 15:05	JRH	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 16:37, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	210	0.30		mg/kg	328	7439-92-1		

Lab Sample ID: S15013.27
Sample Tag: SB-83/84-55(7-9)_061820
Collected Date/Time: 06/18/2020 09:25
Matrix: Soil
COC Reference: 134526

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/23/20 15:05	JRH	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 16:39, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	17.2	0.30		mg/kg	268	7439-92-1		

Lab Sample ID: S15013.28
Sample Tag: SB-83/84-55(9-11)_061820
Collected Date/Time: 06/18/2020 09:30
Matrix: Soil
COC Reference: 134526

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/23/20 15:05	JRH	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 16:40, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	3.76	0.30		mg/kg	272	7439-92-1		

Lab Sample ID: S15013.29
Sample Tag: SB-83/84-48(1-3)_061820
Collected Date/Time: 06/18/2020 09:55
Matrix: Soil
COC Reference: 134526

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/23/20 15:05	JRH	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	98	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 16:41, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	5.80	0.30		mg/kg	266	7439-92-1		

Lab Sample ID: S15013.30
Sample Tag: SB-83/84-48(5-7)_061820
Collected Date/Time: 06/18/2020 10:00
Matrix: Soil
COC Reference: 134526

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/23/20 15:05	JRH	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 16:42, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	19.7	0.30		mg/kg	357	7439-92-1		

Lab Sample ID: S15013.31
Sample Tag: SB-83/84-48(7-9)_061820
Collected Date/Time: 06/18/2020 10:05
Matrix: Soil
COC Reference: 134526

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/23/20 15:05	JRH	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 16:44, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	7.73	0.30		mg/kg	323	7439-92-1		

Lab Sample ID: S15013.32
Sample Tag: SB-83/84-48(9-11)_061820
Collected Date/Time: 06/18/2020 10:10
Matrix: Soil
COC Reference: 134526

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	06/23/20 15:05	JRH	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	84	1		%	1			

Metals

Method: SW6020A, Run Date: 06/23/20 16:45, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	7.45	0.30		mg/kg	340	7439-92-1		

Lab Sample ID: S15013.33
Sample Tag: SB-10-79(1-3)_061820
Collected Date/Time: 06/18/2020 11:10
Matrix: Soil
COC Reference: 134526

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/22/20 12:00	TV	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:21, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	93	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/23/20 19:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		

Lab Sample ID: S15013.34
Sample Tag: SB-10-79(4-6)_061820
Collected Date/Time: 06/18/2020 11:15
Matrix: Soil
COC Reference: 134526

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/22/20 12:00	TV	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/23/20 18:48, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		

Lab Sample ID: S15013.35
Sample Tag: SB-10-78(1-3)_061820
Collected Date/Time: 06/18/2020 11:50
Matrix: Soil
COC Reference: 134526

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/22/20 12:00	TV	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/23/20 19:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		

Lab Sample ID: S15013.36
Sample Tag: SB-10-78(4-6)_061820
Collected Date/Time: 06/18/2020 11:55
Matrix: Soil
COC Reference: 134527

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/24/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/25/20 14:05, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		

Lab Sample ID: S15013.37
Sample Tag: SB-10-79(6-8)_061820
Collected Date/Time: 06/18/2020 13:00
Matrix: Soil
COC Reference: 134527

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/24/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/25/20 13:20, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		

Lab Sample ID: S15013.38
Sample Tag: SB-10-78(6-7)_061820
Collected Date/Time: 06/18/2020 13:25
Matrix: Soil
COC Reference: 134527

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	06/24/20 11:30	JL	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	89	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/25/20 13:42, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		

Lab Sample ID: S15013.39
Sample Tag: SB-84-32(1-3)_061820
Collected Date/Time: 06/18/2020 14:00
Matrix: Soil
COC Reference: 134527

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	15.204/15	SW5035A	06/22/20 09:42	JCR	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	85	1		%	1			

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 04:46, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	300		ug/kg	66.9	60-29-7		
Acetone	Not detected	1,000		ug/kg	66.9	67-64-1		
Methyl iodide	Not detected	100		ug/kg	66.9	74-88-4		
Carbon disulfide	Not detected	300		ug/kg	66.9	75-15-0		
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	66.9	1634-04-4		
Acrylonitrile	Not detected	100		ug/kg	66.9	107-13-1		
2-Butanone (MEK)	Not detected	1,000		ug/kg	66.9	78-93-3		
Dichlorodifluoromethane	Not detected	300		ug/kg	66.9	75-71-8		
Chloromethane	Not detected	300		ug/kg	66.9	74-87-3		
Vinyl chloride	Not detected	70		ug/kg	66.9	75-01-4		
Bromomethane	Not detected	300		ug/kg	66.9	74-83-9		
Chloroethane	Not detected	300		ug/kg	66.9	75-00-3		
Trichlorofluoromethane	Not detected	100		ug/kg	66.9	75-69-4		
1,1-Dichloroethene	Not detected	70		ug/kg	66.9	75-35-4		
Methylene chloride	Not detected	100		ug/kg	66.9	75-09-2		
trans-1,2-Dichloroethene	Not detected	70		ug/kg	66.9	156-60-5		
1,1-Dichloroethane	Not detected	70		ug/kg	66.9	75-34-3		
cis-1,2-Dichloroethene	Not detected	70		ug/kg	66.9	156-59-2		
Tetrahydrofuran*	Not detected	1,000		ug/kg	66.9	109-99-9		
Chloroform	Not detected	70		ug/kg	66.9	67-66-3		
Bromochloromethane	Not detected	100		ug/kg	66.9	74-97-5		
1,1,1-Trichloroethane	Not detected	70		ug/kg	66.9	71-55-6		
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	66.9	108-10-1		
2-Hexanone	Not detected	3,000		ug/kg	66.9	591-78-6		
Carbon tetrachloride	Not detected	70		ug/kg	66.9	56-23-5		
Benzene	Not detected	70		ug/kg	66.9	71-43-2		
1,2-Dichloroethane	Not detected	70		ug/kg	66.9	107-06-2		
Trichloroethene	Not detected	70		ug/kg	66.9	79-01-6		
1,2-Dichloropropane	Not detected	70		ug/kg	66.9	78-87-5		
Bromodichloromethane	Not detected	100		ug/kg	66.9	75-27-4		
Dibromomethane	Not detected	300		ug/kg	66.9	74-95-3		

Lab Sample ID: S15013.39 (continued)
Sample Tag: SB-84-32(1-3)_061820

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 04:46, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
cis-1,3-Dichloropropene	Not detected	70		ug/kg	66.9	10061-01-5		
Toluene	Not detected	70		ug/kg	66.9	108-88-3		
trans-1,3-Dichloropropene	Not detected	70		ug/kg	66.9	10061-02-6		
1,1,2-Trichloroethane	Not detected	70		ug/kg	66.9	79-00-5		
Tetrachloroethene	Not detected	70		ug/kg	66.9	127-18-4		
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	66.9	110-57-6		
Dibromochloromethane	Not detected	100		ug/kg	66.9	124-48-1		
1,2-Dibromoethane	Not detected	30		ug/kg	66.9	106-93-4	M	
Chlorobenzene	Not detected	70		ug/kg	66.9	108-90-7		
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	66.9	630-20-6		
Ethylbenzene	Not detected	70		ug/kg	66.9	100-41-4		
p,m-Xylene	Not detected	100		ug/kg	66.9			
o-Xylene	Not detected	70		ug/kg	66.9	95-47-6		
Styrene	Not detected	70		ug/kg	66.9	100-42-5		
Isopropylbenzene	Not detected	300		ug/kg	66.9	98-82-8		
Bromoform	Not detected	100		ug/kg	66.9	75-25-2		
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	66.9	79-34-5		
1,2,3-Trichloropropane	Not detected	100		ug/kg	66.9	96-18-4		
n-Propylbenzene	Not detected	70		ug/kg	66.9	103-65-1		
Bromobenzene	Not detected	100		ug/kg	66.9	108-86-1		
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	66.9	108-67-8		
tert-Butylbenzene	Not detected	70		ug/kg	66.9	98-06-6		
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	66.9	95-63-6		
sec-Butylbenzene	Not detected	70		ug/kg	66.9	135-98-8		
p-Isopropyltoluene	Not detected	100		ug/kg	66.9	99-87-6		
1,3-Dichlorobenzene	Not detected	100		ug/kg	66.9	541-73-1		
1,4-Dichlorobenzene	Not detected	100		ug/kg	66.9	106-46-7		
1,2-Dichlorobenzene	Not detected	100		ug/kg	66.9	95-50-1		
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	66.9	526-73-8		
n-Butylbenzene	Not detected	70		ug/kg	66.9	104-51-8		
Hexachloroethane	Not detected	400		ug/kg	66.9	67-72-1		
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	66.9	96-12-8		
1,2,4-Trichlorobenzene	Not detected	440		ug/kg	66.9	120-82-1		
1,2,3-Trichlorobenzene	Not detected	440		ug/kg	66.9	87-61-6		
Naphthalene	Not detected	300		ug/kg	66.9	91-20-3		
2-Methylnaphthalene	Not detected	100		ug/kg	66.9	91-57-6		

M-Result reported to MDL not RDL

Lab Sample ID: S15013.40
Sample Tag: SB-84-32(3-5)_061820
Collected Date/Time: 06/18/2020 14:05
Matrix: Soil
COC Reference: 134527

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	18.179/18	SW5035A	06/22/20 09:42	JCR	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	83	1		%	1			

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 05:06, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	300		ug/kg	69.9	60-29-7		
Acetone	Not detected	1,000		ug/kg	69.9	67-64-1		
Methyl iodide	Not detected	100		ug/kg	69.9	74-88-4		
Carbon disulfide	Not detected	300		ug/kg	69.9	75-15-0		
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	69.9	1634-04-4		
Acrylonitrile	Not detected	100		ug/kg	69.9	107-13-1		
2-Butanone (MEK)	Not detected	1,000		ug/kg	69.9	78-93-3		
Dichlorodifluoromethane	Not detected	300		ug/kg	69.9	75-71-8		
Chloromethane	Not detected	300		ug/kg	69.9	74-87-3		
Vinyl chloride	Not detected	70		ug/kg	69.9	75-01-4		
Bromomethane	Not detected	300		ug/kg	69.9	74-83-9		
Chloroethane	Not detected	300		ug/kg	69.9	75-00-3		
Trichlorofluoromethane	Not detected	100		ug/kg	69.9	75-69-4		
1,1-Dichloroethene	Not detected	70		ug/kg	69.9	75-35-4		
Methylene chloride	Not detected	100		ug/kg	69.9	75-09-2		
trans-1,2-Dichloroethene	Not detected	70		ug/kg	69.9	156-60-5		
1,1-Dichloroethane	Not detected	70		ug/kg	69.9	75-34-3		
cis-1,2-Dichloroethene	Not detected	70		ug/kg	69.9	156-59-2		
Tetrahydrofuran*	Not detected	1,000		ug/kg	69.9	109-99-9		
Chloroform	Not detected	70		ug/kg	69.9	67-66-3		
Bromochloromethane	Not detected	100		ug/kg	69.9	74-97-5		
1,1,1-Trichloroethane	Not detected	70		ug/kg	69.9	71-55-6		
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	69.9	108-10-1		
2-Hexanone	Not detected	3,000		ug/kg	69.9	591-78-6		
Carbon tetrachloride	Not detected	70		ug/kg	69.9	56-23-5		
Benzene	Not detected	70		ug/kg	69.9	71-43-2		
1,2-Dichloroethane	Not detected	70		ug/kg	69.9	107-06-2		
Trichloroethene	Not detected	70		ug/kg	69.9	79-01-6		
1,2-Dichloropropane	Not detected	70		ug/kg	69.9	78-87-5		
Bromodichloromethane	Not detected	100		ug/kg	69.9	75-27-4		
Dibromomethane	Not detected	300		ug/kg	69.9	74-95-3		

Lab Sample ID: S15013.40 (continued)
Sample Tag: SB-84-32(3-5)_061820

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 05:06, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
cis-1,3-Dichloropropene	Not detected	70		ug/kg	69.9	10061-01-5		
Toluene	Not detected	70		ug/kg	69.9	108-88-3		
trans-1,3-Dichloropropene	Not detected	70		ug/kg	69.9	10061-02-6		
1,1,2-Trichloroethane	Not detected	70		ug/kg	69.9	79-00-5		
Tetrachloroethene	Not detected	70		ug/kg	69.9	127-18-4		
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	69.9	110-57-6		
Dibromochloromethane	Not detected	100		ug/kg	69.9	124-48-1		
1,2-Dibromoethane	Not detected	30		ug/kg	69.9	106-93-4	M	
Chlorobenzene	Not detected	70		ug/kg	69.9	108-90-7		
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	69.9	630-20-6		
Ethylbenzene	Not detected	70		ug/kg	69.9	100-41-4		
p,m-Xylene	Not detected	100		ug/kg	69.9			
o-Xylene	Not detected	70		ug/kg	69.9	95-47-6		
Styrene	Not detected	70		ug/kg	69.9	100-42-5		
Isopropylbenzene	Not detected	300		ug/kg	69.9	98-82-8		
Bromoform	Not detected	100		ug/kg	69.9	75-25-2		
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	69.9	79-34-5		
1,2,3-Trichloropropane	Not detected	100		ug/kg	69.9	96-18-4		
n-Propylbenzene	Not detected	70		ug/kg	69.9	103-65-1		
Bromobenzene	Not detected	100		ug/kg	69.9	108-86-1		
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	69.9	108-67-8		
tert-Butylbenzene	Not detected	70		ug/kg	69.9	98-06-6		
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	69.9	95-63-6		
sec-Butylbenzene	Not detected	70		ug/kg	69.9	135-98-8		
p-Isopropyltoluene	Not detected	100		ug/kg	69.9	99-87-6		
1,3-Dichlorobenzene	Not detected	100		ug/kg	69.9	541-73-1		
1,4-Dichlorobenzene	Not detected	100		ug/kg	69.9	106-46-7		
1,2-Dichlorobenzene	Not detected	100		ug/kg	69.9	95-50-1		
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	69.9	526-73-8		
n-Butylbenzene	Not detected	70		ug/kg	69.9	104-51-8		
Hexachloroethane	Not detected	400		ug/kg	69.9	67-72-1		
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	69.9	96-12-8		
1,2,4-Trichlorobenzene	Not detected	460		ug/kg	69.9	120-82-1		
1,2,3-Trichlorobenzene	Not detected	460		ug/kg	69.9	87-61-6		
Naphthalene	Not detected	300		ug/kg	69.9	91-20-3		
2-Methylnaphthalene	Not detected	100		ug/kg	69.9	91-57-6		

M-Result reported to MDL not RDL

Lab Sample ID: S15013.41
Sample Tag: SB-84-33(1-3)_061820
Collected Date/Time: 06/18/2020 14:35
Matrix: Soil
COC Reference: 134527

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	13.012/13	SW5035A	06/22/20 09:42	JCR	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 11:31, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	300		ug/kg	63.6	60-29-7		
Acetone	Not detected	1,000		ug/kg	63.6	67-64-1		
Methyl iodide	Not detected	100		ug/kg	63.6	74-88-4		
Carbon disulfide	Not detected	300		ug/kg	63.6	75-15-0		
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	63.6	1634-04-4		
Acrylonitrile	Not detected	100		ug/kg	63.6	107-13-1		
2-Butanone (MEK)	Not detected	950		ug/kg	63.6	78-93-3		
Dichlorodifluoromethane	Not detected	300		ug/kg	63.6	75-71-8		
Chloromethane	Not detected	300		ug/kg	63.6	74-87-3		
Vinyl chloride	Not detected	60		ug/kg	63.6	75-01-4		
Bromomethane	Not detected	300		ug/kg	63.6	74-83-9		
Chloroethane	Not detected	300		ug/kg	63.6	75-00-3		
Trichlorofluoromethane	Not detected	100		ug/kg	63.6	75-69-4		
1,1-Dichloroethene	Not detected	60		ug/kg	63.6	75-35-4		
Methylene chloride	Not detected	100		ug/kg	63.6	75-09-2		
trans-1,2-Dichloroethene	Not detected	60		ug/kg	63.6	156-60-5		
1,1-Dichloroethane	Not detected	60		ug/kg	63.6	75-34-3		
cis-1,2-Dichloroethene	Not detected	60		ug/kg	63.6	156-59-2		
Tetrahydrofuran*	Not detected	1,000		ug/kg	63.6	109-99-9		
Chloroform	Not detected	60		ug/kg	63.6	67-66-3		
Bromochloromethane	Not detected	100		ug/kg	63.6	74-97-5		
1,1,1-Trichloroethane	Not detected	60		ug/kg	63.6	71-55-6		
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	63.6	108-10-1		
2-Hexanone	Not detected	3,000		ug/kg	63.6	591-78-6		
Carbon tetrachloride	Not detected	60		ug/kg	63.6	56-23-5		
Benzene	Not detected	60		ug/kg	63.6	71-43-2		
1,2-Dichloroethane	Not detected	60		ug/kg	63.6	107-06-2		
Trichloroethene	360	60		ug/kg	63.6	79-01-6		
1,2-Dichloropropane	Not detected	60		ug/kg	63.6	78-87-5		
Bromodichloromethane	Not detected	100		ug/kg	63.6	75-27-4		
Dibromomethane	Not detected	300		ug/kg	63.6	74-95-3		

Lab Sample ID: S15013.41 (continued)
Sample Tag: SB-84-33(1-3)_061820

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 11:31, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
cis-1,3-Dichloropropene	Not detected	60		ug/kg	63.6	10061-01-5		
Toluene	100	60		ug/kg	63.6	108-88-3		
trans-1,3-Dichloropropene	Not detected	60		ug/kg	63.6	10061-02-6		
1,1,2-Trichloroethane	Not detected	60		ug/kg	63.6	79-00-5		
Tetrachloroethene	Not detected	60		ug/kg	63.6	127-18-4		
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	63.6	110-57-6		
Dibromochloromethane	Not detected	100		ug/kg	63.6	124-48-1		
1,2-Dibromoethane	Not detected	30		ug/kg	63.6	106-93-4	M	
Chlorobenzene	Not detected	60		ug/kg	63.6	108-90-7		
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	63.6	630-20-6		
Ethylbenzene	Not detected	60		ug/kg	63.6	100-41-4		
p,m-Xylene	Not detected	100		ug/kg	63.6			
o-Xylene	Not detected	60		ug/kg	63.6	95-47-6		
Styrene	Not detected	60		ug/kg	63.6	100-42-5		
Isopropylbenzene	Not detected	300		ug/kg	63.6	98-82-8		
Bromoform	Not detected	100		ug/kg	63.6	75-25-2		
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	63.6	79-34-5		
1,2,3-Trichloropropane	Not detected	100		ug/kg	63.6	96-18-4		
n-Propylbenzene	Not detected	60		ug/kg	63.6	103-65-1		
Bromobenzene	Not detected	100		ug/kg	63.6	108-86-1		
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	63.6	108-67-8		
tert-Butylbenzene	Not detected	60		ug/kg	63.6	98-06-6		
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	63.6	95-63-6		
sec-Butylbenzene	Not detected	60		ug/kg	63.6	135-98-8		
p-Isopropyltoluene	Not detected	100		ug/kg	63.6	99-87-6		
1,3-Dichlorobenzene	Not detected	100		ug/kg	63.6	541-73-1		
1,4-Dichlorobenzene	Not detected	100		ug/kg	63.6	106-46-7		
1,2-Dichlorobenzene	Not detected	100		ug/kg	63.6	95-50-1		
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	63.6	526-73-8		
n-Butylbenzene	Not detected	60		ug/kg	63.6	104-51-8		
Hexachloroethane	Not detected	400		ug/kg	63.6	67-72-1		
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	63.6	96-12-8		
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	63.6	120-82-1		
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	63.6	87-61-6		
Naphthalene	Not detected	300		ug/kg	63.6	91-20-3		
2-Methylnaphthalene	Not detected	100		ug/kg	63.6	91-57-6		

M-Result reported to MDL not RDL

Lab Sample ID: S15013.42
Sample Tag: SB-84-33(3-5)_061820
Collected Date/Time: 06/18/2020 14:40
Matrix: Soil
COC Reference: 134527

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	17.955/17	SW5035A	06/22/20 09:42	JCR	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 11:52, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	200		ug/kg	61.9	60-29-7		
Acetone	Not detected	1,000		ug/kg	61.9	67-64-1		
Methyl iodide	Not detected	100		ug/kg	61.9	74-88-4		
Carbon disulfide	Not detected	300		ug/kg	61.9	75-15-0		
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	61.9	1634-04-4		
Acrylonitrile	Not detected	100		ug/kg	61.9	107-13-1		
2-Butanone (MEK)	Not detected	930		ug/kg	61.9	78-93-3		
Dichlorodifluoromethane	Not detected	300		ug/kg	61.9	75-71-8		
Chloromethane	Not detected	300		ug/kg	61.9	74-87-3		
Vinyl chloride	Not detected	60		ug/kg	61.9	75-01-4		
Bromomethane	Not detected	200		ug/kg	61.9	74-83-9		
Chloroethane	Not detected	300		ug/kg	61.9	75-00-3		
Trichlorofluoromethane	Not detected	100		ug/kg	61.9	75-69-4		
1,1-Dichloroethene	Not detected	60		ug/kg	61.9	75-35-4		
Methylene chloride	Not detected	100		ug/kg	61.9	75-09-2		
trans-1,2-Dichloroethene	Not detected	60		ug/kg	61.9	156-60-5		
1,1-Dichloroethane	Not detected	60		ug/kg	61.9	75-34-3		
cis-1,2-Dichloroethene	Not detected	60		ug/kg	61.9	156-59-2		
Tetrahydrofuran*	Not detected	1,000		ug/kg	61.9	109-99-9		
Chloroform	Not detected	60		ug/kg	61.9	67-66-3		
Bromochloromethane	Not detected	100		ug/kg	61.9	74-97-5		
1,1,1-Trichloroethane	Not detected	60		ug/kg	61.9	71-55-6		
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	61.9	108-10-1		
2-Hexanone	Not detected	3,000		ug/kg	61.9	591-78-6		
Carbon tetrachloride	Not detected	60		ug/kg	61.9	56-23-5		
Benzene	Not detected	60		ug/kg	61.9	71-43-2		
1,2-Dichloroethane	Not detected	60		ug/kg	61.9	107-06-2		
Trichloroethene	Not detected	60		ug/kg	61.9	79-01-6		
1,2-Dichloropropane	Not detected	60		ug/kg	61.9	78-87-5		
Bromodichloromethane	Not detected	100		ug/kg	61.9	75-27-4		
Dibromomethane	Not detected	300		ug/kg	61.9	74-95-3		

Lab Sample ID: S15013.42 (continued)
Sample Tag: SB-84-33(3-5)_061820

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 11:52, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
cis-1,3-Dichloropropene	Not detected	60		ug/kg	61.9	10061-01-5		
Toluene	Not detected	60		ug/kg	61.9	108-88-3		
trans-1,3-Dichloropropene	Not detected	60		ug/kg	61.9	10061-02-6		
1,1,2-Trichloroethane	Not detected	60		ug/kg	61.9	79-00-5		
Tetrachloroethene	Not detected	60		ug/kg	61.9	127-18-4		
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	61.9	110-57-6		
Dibromochloromethane	Not detected	100		ug/kg	61.9	124-48-1		
1,2-Dibromoethane	Not detected	20		ug/kg	61.9	106-93-4	M	
Chlorobenzene	Not detected	60		ug/kg	61.9	108-90-7		
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	61.9	630-20-6		
Ethylbenzene	Not detected	60		ug/kg	61.9	100-41-4		
p,m-Xylene	Not detected	100		ug/kg	61.9			
o-Xylene	Not detected	60		ug/kg	61.9	95-47-6		
Styrene	Not detected	60		ug/kg	61.9	100-42-5		
Isopropylbenzene	Not detected	300		ug/kg	61.9	98-82-8		
Bromoform	Not detected	100		ug/kg	61.9	75-25-2		
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	61.9	79-34-5		
1,2,3-Trichloropropane	Not detected	100		ug/kg	61.9	96-18-4		
n-Propylbenzene	Not detected	60		ug/kg	61.9	103-65-1		
Bromobenzene	Not detected	100		ug/kg	61.9	108-86-1		
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	61.9	108-67-8		
tert-Butylbenzene	Not detected	60		ug/kg	61.9	98-06-6		
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	61.9	95-63-6		
sec-Butylbenzene	Not detected	60		ug/kg	61.9	135-98-8		
p-Isopropyltoluene	Not detected	100		ug/kg	61.9	99-87-6		
1,3-Dichlorobenzene	Not detected	100		ug/kg	61.9	541-73-1		
1,4-Dichlorobenzene	Not detected	100		ug/kg	61.9	106-46-7		
1,2-Dichlorobenzene	Not detected	100		ug/kg	61.9	95-50-1		
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	61.9	526-73-8		
n-Butylbenzene	Not detected	60		ug/kg	61.9	104-51-8		
Hexachloroethane	Not detected	400		ug/kg	61.9	67-72-1		
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	61.9	96-12-8		
1,2,4-Trichlorobenzene	Not detected	410		ug/kg	61.9	120-82-1		
1,2,3-Trichlorobenzene	Not detected	410		ug/kg	61.9	87-61-6		
Naphthalene	Not detected	300		ug/kg	61.9	91-20-3		
2-Methylnaphthalene	Not detected	100		ug/kg	61.9	91-57-6		

M-Result reported to MDL not RDL

Lab Sample ID: S15013.43
Sample Tag: SB-84-34(1-3)_061820
Collected Date/Time: 06/18/2020 15:20
Matrix: Soil
COC Reference: 134527

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10.26/10	SW5035A	06/22/20 09:42	JCR	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	97	1		%	1			

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 12:12, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	200		ug/kg	51.8	60-29-7		
Acetone	Not detected	1,000		ug/kg	51.8	67-64-1		
Methyl iodide	Not detected	100		ug/kg	51.8	74-88-4		
Carbon disulfide	Not detected	300		ug/kg	51.8	75-15-0		
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	51.8	1634-04-4		
Acrylonitrile	Not detected	100		ug/kg	51.8	107-13-1		
2-Butanone (MEK)	Not detected	780		ug/kg	51.8	78-93-3		
Dichlorodifluoromethane	Not detected	300		ug/kg	51.8	75-71-8		
Chloromethane	Not detected	300		ug/kg	51.8	74-87-3		
Vinyl chloride	Not detected	50		ug/kg	51.8	75-01-4		
Bromomethane	Not detected	200		ug/kg	51.8	74-83-9		
Chloroethane	Not detected	300		ug/kg	51.8	75-00-3		
Trichlorofluoromethane	Not detected	100		ug/kg	51.8	75-69-4		
1,1-Dichloroethene	Not detected	50		ug/kg	51.8	75-35-4		
Methylene chloride	Not detected	100		ug/kg	51.8	75-09-2		
trans-1,2-Dichloroethene	Not detected	50		ug/kg	51.8	156-60-5		
1,1-Dichloroethane	Not detected	50		ug/kg	51.8	75-34-3		
cis-1,2-Dichloroethene	Not detected	50		ug/kg	51.8	156-59-2		
Tetrahydrofuran*	Not detected	1,000		ug/kg	51.8	109-99-9		
Chloroform	Not detected	50		ug/kg	51.8	67-66-3		
Bromochloromethane	Not detected	100		ug/kg	51.8	74-97-5		
1,1,1-Trichloroethane	Not detected	50		ug/kg	51.8	71-55-6		
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	51.8	108-10-1		
2-Hexanone	Not detected	3,000		ug/kg	51.8	591-78-6		
Carbon tetrachloride	Not detected	50		ug/kg	51.8	56-23-5		
Benzene	Not detected	50		ug/kg	51.8	71-43-2		
1,2-Dichloroethane	Not detected	50		ug/kg	51.8	107-06-2		
Trichloroethene	2,980	50		ug/kg	51.8	79-01-6		
1,2-Dichloropropane	Not detected	50		ug/kg	51.8	78-87-5		
Bromodichloromethane	Not detected	100		ug/kg	51.8	75-27-4		
Dibromomethane	Not detected	300		ug/kg	51.8	74-95-3		

Lab Sample ID: S15013.43 (continued)
Sample Tag: SB-84-34(1-3)_061820

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 12:12, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
cis-1,3-Dichloropropene	Not detected	50		ug/kg	51.8	10061-01-5		
Toluene	Not detected	50		ug/kg	51.8	108-88-3		
trans-1,3-Dichloropropene	Not detected	50		ug/kg	51.8	10061-02-6		
1,1,2-Trichloroethane	Not detected	50		ug/kg	51.8	79-00-5		
Tetrachloroethene	Not detected	50		ug/kg	51.8	127-18-4		
trans-1,4-Dichloro-2-butene	Not detected	50		ug/kg	51.8	110-57-6		
Dibromochloromethane	Not detected	100		ug/kg	51.8	124-48-1		
1,2-Dibromoethane	Not detected	20		ug/kg	51.8	106-93-4	M	
Chlorobenzene	Not detected	50		ug/kg	51.8	108-90-7		
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	51.8	630-20-6		
Ethylbenzene	Not detected	50		ug/kg	51.8	100-41-4		
p,m-Xylene	Not detected	100		ug/kg	51.8			
o-Xylene	Not detected	50		ug/kg	51.8	95-47-6		
Styrene	Not detected	50		ug/kg	51.8	100-42-5		
Isopropylbenzene	Not detected	300		ug/kg	51.8	98-82-8		
Bromoform	Not detected	100		ug/kg	51.8	75-25-2		
1,1,2,2-Tetrachloroethane	Not detected	50		ug/kg	51.8	79-34-5		
1,2,3-Trichloropropane	Not detected	100		ug/kg	51.8	96-18-4		
n-Propylbenzene	Not detected	50		ug/kg	51.8	103-65-1		
Bromobenzene	Not detected	100		ug/kg	51.8	108-86-1		
1,3,5-Trimethylbenzene	Not detected	50		ug/kg	51.8	108-67-8		
tert-Butylbenzene	Not detected	50		ug/kg	51.8	98-06-6		
1,2,4-Trimethylbenzene	Not detected	50		ug/kg	51.8	95-63-6		
sec-Butylbenzene	Not detected	50		ug/kg	51.8	135-98-8		
p-Isopropyltoluene	Not detected	100		ug/kg	51.8	99-87-6		
1,3-Dichlorobenzene	Not detected	100		ug/kg	51.8	541-73-1		
1,4-Dichlorobenzene	Not detected	100		ug/kg	51.8	106-46-7		
1,2-Dichlorobenzene	Not detected	100		ug/kg	51.8	95-50-1		
1,2,3-Trimethylbenzene	Not detected	50		ug/kg	51.8	526-73-8		
n-Butylbenzene	Not detected	50		ug/kg	51.8	104-51-8		
Hexachloroethane	Not detected	300		ug/kg	51.8	67-72-1		
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	51.8	96-12-8		
1,2,4-Trichlorobenzene	Not detected	340		ug/kg	51.8	120-82-1		
1,2,3-Trichlorobenzene	Not detected	340		ug/kg	51.8	87-61-6		
Naphthalene	Not detected	300		ug/kg	51.8	91-20-3		
2-Methylnaphthalene	Not detected	100		ug/kg	51.8	91-57-6		

M-Result reported to MDL not RDL

Lab Sample ID: S15013.44
Sample Tag: SB-84-34(3-5)_061820
Collected Date/Time: 06/18/2020 15:25
Matrix: Soil
COC Reference: 134527

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10.761/10	SW5035A	06/22/20 09:42	JCR	

Inorganics

Method: SM2540B, Run Date: 06/19/20 21:28, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	95	1		%	1			

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 12:32, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	200		ug/kg	51.5	60-29-7		
Acetone	Not detected	1,000		ug/kg	51.5	67-64-1		
Methyl iodide	Not detected	100		ug/kg	51.5	74-88-4		
Carbon disulfide	Not detected	300		ug/kg	51.5	75-15-0		
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	51.5	1634-04-4		
Acrylonitrile	Not detected	100		ug/kg	51.5	107-13-1		
2-Butanone (MEK)	Not detected	770		ug/kg	51.5	78-93-3		
Dichlorodifluoromethane	Not detected	300		ug/kg	51.5	75-71-8		
Chloromethane	Not detected	300		ug/kg	51.5	74-87-3		
Vinyl chloride	Not detected	50		ug/kg	51.5	75-01-4		
Bromomethane	Not detected	200		ug/kg	51.5	74-83-9		
Chloroethane	Not detected	300		ug/kg	51.5	75-00-3		
Trichlorofluoromethane	Not detected	100		ug/kg	51.5	75-69-4		
1,1-Dichloroethene	Not detected	50		ug/kg	51.5	75-35-4		
Methylene chloride	Not detected	100		ug/kg	51.5	75-09-2		
trans-1,2-Dichloroethene	Not detected	50		ug/kg	51.5	156-60-5		
1,1-Dichloroethane	Not detected	50		ug/kg	51.5	75-34-3		
cis-1,2-Dichloroethene	Not detected	50		ug/kg	51.5	156-59-2		
Tetrahydrofuran*	Not detected	1,000		ug/kg	51.5	109-99-9		
Chloroform	Not detected	50		ug/kg	51.5	67-66-3		
Bromochloromethane	Not detected	100		ug/kg	51.5	74-97-5		
1,1,1-Trichloroethane	Not detected	50		ug/kg	51.5	71-55-6		
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	51.5	108-10-1		
2-Hexanone	Not detected	3,000		ug/kg	51.5	591-78-6		
Carbon tetrachloride	Not detected	50		ug/kg	51.5	56-23-5		
Benzene	Not detected	50		ug/kg	51.5	71-43-2		
1,2-Dichloroethane	Not detected	50		ug/kg	51.5	107-06-2		
Trichloroethene	2,180	50		ug/kg	51.5	79-01-6		
1,2-Dichloropropane	Not detected	50		ug/kg	51.5	78-87-5		
Bromodichloromethane	Not detected	100		ug/kg	51.5	75-27-4		
Dibromomethane	Not detected	300		ug/kg	51.5	74-95-3		

Lab Sample ID: S15013.44 (continued)
Sample Tag: SB-84-34(3-5)_061820

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 12:32, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
cis-1,3-Dichloropropene	Not detected	50		ug/kg	51.5	10061-01-5		
Toluene	Not detected	50		ug/kg	51.5	108-88-3		
trans-1,3-Dichloropropene	Not detected	50		ug/kg	51.5	10061-02-6		
1,1,2-Trichloroethane	Not detected	50		ug/kg	51.5	79-00-5		
Tetrachloroethene	Not detected	50		ug/kg	51.5	127-18-4		
trans-1,4-Dichloro-2-butene	Not detected	50		ug/kg	51.5	110-57-6		
Dibromochloromethane	Not detected	100		ug/kg	51.5	124-48-1		
1,2-Dibromoethane	Not detected	20		ug/kg	51.5	106-93-4	M	
Chlorobenzene	Not detected	50		ug/kg	51.5	108-90-7		
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	51.5	630-20-6		
Ethylbenzene	Not detected	50		ug/kg	51.5	100-41-4		
p,m-Xylene	Not detected	100		ug/kg	51.5			
o-Xylene	Not detected	50		ug/kg	51.5	95-47-6		
Styrene	Not detected	50		ug/kg	51.5	100-42-5		
Isopropylbenzene	Not detected	300		ug/kg	51.5	98-82-8		
Bromoform	Not detected	100		ug/kg	51.5	75-25-2		
1,1,2,2-Tetrachloroethane	Not detected	50		ug/kg	51.5	79-34-5		
1,2,3-Trichloropropane	Not detected	100		ug/kg	51.5	96-18-4		
n-Propylbenzene	Not detected	50		ug/kg	51.5	103-65-1		
Bromobenzene	Not detected	100		ug/kg	51.5	108-86-1		
1,3,5-Trimethylbenzene	Not detected	50		ug/kg	51.5	108-67-8		
tert-Butylbenzene	Not detected	50		ug/kg	51.5	98-06-6		
1,2,4-Trimethylbenzene	Not detected	50		ug/kg	51.5	95-63-6		
sec-Butylbenzene	Not detected	50		ug/kg	51.5	135-98-8		
p-Isopropyltoluene	Not detected	100		ug/kg	51.5	99-87-6		
1,3-Dichlorobenzene	Not detected	100		ug/kg	51.5	541-73-1		
1,4-Dichlorobenzene	Not detected	100		ug/kg	51.5	106-46-7		
1,2-Dichlorobenzene	Not detected	100		ug/kg	51.5	95-50-1		
1,2,3-Trimethylbenzene	Not detected	50		ug/kg	51.5	526-73-8		
n-Butylbenzene	Not detected	50		ug/kg	51.5	104-51-8		
Hexachloroethane	Not detected	300		ug/kg	51.5	67-72-1		
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	51.5	96-12-8		
1,2,4-Trichlorobenzene	Not detected	340		ug/kg	51.5	120-82-1		
1,2,3-Trichlorobenzene	Not detected	340		ug/kg	51.5	87-61-6		
Naphthalene	Not detected	300		ug/kg	51.5	91-20-3		
2-Methylnaphthalene	Not detected	100		ug/kg	51.5	91-57-6		

M-Result reported to MDL not RDL

Lab Sample ID: S15013.45
Sample Tag: Trip Blanks
Collected Date/Time: 06/18/2020 00:01
Matrix: Methanol
COC Reference: 134527

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10/10	SW5035A	06/22/20 09:42	JCR	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 11:11, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Diethyl ether	Not detected	200		ug/kg	50	60-29-7		
Acetone	Not detected	1,000		ug/kg	50	67-64-1		
Methyl iodide	Not detected	100		ug/kg	50	74-88-4		
Carbon disulfide	Not detected	300		ug/kg	50	75-15-0		
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	50	1634-04-4		
Acrylonitrile	Not detected	100		ug/kg	50	107-13-1		
2-Butanone (MEK)	Not detected	750		ug/kg	50	78-93-3		
Dichlorodifluoromethane	Not detected	300		ug/kg	50	75-71-8		
Chloromethane	Not detected	300		ug/kg	50	74-87-3		
Vinyl chloride	Not detected	50		ug/kg	50	75-01-4		
Bromomethane	Not detected	200		ug/kg	50	74-83-9		
Chloroethane	Not detected	300		ug/kg	50	75-00-3		
Trichlorofluoromethane	Not detected	100		ug/kg	50	75-69-4		
1,1-Dichloroethene	Not detected	50		ug/kg	50	75-35-4		
Methylene chloride	Not detected	100		ug/kg	50	75-09-2		
trans-1,2-Dichloroethene	Not detected	50		ug/kg	50	156-60-5		
1,1-Dichloroethane	Not detected	50		ug/kg	50	75-34-3		
cis-1,2-Dichloroethene	Not detected	50		ug/kg	50	156-59-2		
Tetrahydrofuran*	Not detected	1,000		ug/kg	50	109-99-9		
Chloroform	Not detected	50		ug/kg	50	67-66-3		
Bromochloromethane	Not detected	100		ug/kg	50	74-97-5		
1,1,1-Trichloroethane	Not detected	50		ug/kg	50	71-55-6		
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	50	108-10-1		
2-Hexanone	Not detected	3,000		ug/kg	50	591-78-6		
Carbon tetrachloride	Not detected	50		ug/kg	50	56-23-5		
Benzene	Not detected	50		ug/kg	50	71-43-2		
1,2-Dichloroethane	Not detected	50		ug/kg	50	107-06-2		
Trichloroethene	Not detected	50		ug/kg	50	79-01-6		
1,2-Dichloropropane	Not detected	50		ug/kg	50	78-87-5		
Bromodichloromethane	Not detected	100		ug/kg	50	75-27-4		
Dibromomethane	Not detected	300		ug/kg	50	74-95-3		
cis-1,3-Dichloropropene	Not detected	50		ug/kg	50	10061-01-5		
Toluene	Not detected	50		ug/kg	50	108-88-3		
trans-1,3-Dichloropropene	Not detected	50		ug/kg	50	10061-02-6		
1,1,2-Trichloroethane	Not detected	50		ug/kg	50	79-00-5		
Tetrachloroethene	Not detected	50		ug/kg	50	127-18-4		
trans-1,4-Dichloro-2-butene	Not detected	50		ug/kg	50	110-57-6		

Lab Sample ID: S15013.45 (continued)
Sample Tag: Trip Blanks

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 06/23/20 11:11, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Dibromochloromethane	Not detected	100		ug/kg	50	124-48-1		
1,2-Dibromoethane	Not detected	20		ug/kg	50	106-93-4	M	
Chlorobenzene	Not detected	50		ug/kg	50	108-90-7		
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	50	630-20-6		
Ethylbenzene	Not detected	50		ug/kg	50	100-41-4		
p,m-Xylene	Not detected	100		ug/kg	50			
o-Xylene	Not detected	50		ug/kg	50	95-47-6		
Styrene	Not detected	50		ug/kg	50	100-42-5		
Isopropylbenzene	Not detected	300		ug/kg	50	98-82-8		
Bromoform	Not detected	100		ug/kg	50	75-25-2		
1,1,2,2-Tetrachloroethane	Not detected	50		ug/kg	50	79-34-5		
1,2,3-Trichloropropane	Not detected	100		ug/kg	50	96-18-4		
n-Propylbenzene	Not detected	50		ug/kg	50	103-65-1		
Bromobenzene	Not detected	100		ug/kg	50	108-86-1		
1,3,5-Trimethylbenzene	Not detected	50		ug/kg	50	108-67-8		
tert-Butylbenzene	Not detected	50		ug/kg	50	98-06-6		
1,2,4-Trimethylbenzene	Not detected	50		ug/kg	50	95-63-6		
sec-Butylbenzene	Not detected	50		ug/kg	50	135-98-8		
p-Isopropyltoluene	Not detected	100		ug/kg	50	99-87-6		
1,3-Dichlorobenzene	Not detected	100		ug/kg	50	541-73-1		
1,4-Dichlorobenzene	Not detected	100		ug/kg	50	106-46-7		
1,2-Dichlorobenzene	Not detected	100		ug/kg	50	95-50-1		
1,2,3-Trimethylbenzene	Not detected	50		ug/kg	50	526-73-8		
n-Butylbenzene	Not detected	50		ug/kg	50	104-51-8		
Hexachloroethane	Not detected	300		ug/kg	50	67-72-1		
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	50	96-12-8		
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	50	120-82-1		
1,2,3-Trichlorobenzene	Not detected	330		ug/kg	50	87-61-6		
Naphthalene	Not detected	300		ug/kg	50	91-20-3		
2-Methylnaphthalene	Not detected	100		ug/kg	50	91-57-6		

M-Result reported to MDL not RDL

Merit Laboratories Login Checklist

Lab Set ID: S15013
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: Buick City - RC Delineation
Submitted: 06/19/2020 13:30 Login User: SRS

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 2.6
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[ ] Yes	[X] No	[ ] N/A	COC adequately filled out	Trip blank not listed on COC
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

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Phone (517) 332-0167 Fax (517) 332-4034
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C.O.C. PAGE # 1 OF 4

134524

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: M. Macki / MC Goddard / M. Humphrey / E. Kozak / J. Barker
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr., Suite #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 FAX NO.: P.O. NO.: 30043300
E-MAIL ADDRESS: Joey.Barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: Buick City - RC Delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Ellen Redner / Elr
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☑ OTHER 5 day TAT
DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Lead (total) TCLP	Special Instructions
15013.01	6/17/20	0840	SB-83/84-52(1-3)_061720	S	1	X							X	Hold For TCLP
.02		0845	SB-83/84-52(3-5)_061720											" "
.03		0850	SB-83/84-52(5-7)_061720											
.04		0920	SB-83/84-56(1-3)_061720											
.05		0925	SB-83/84-56(3-5)_061720											
.06		0930	SB-83/84-56(5-7)_061720											
.07		0950	RFI-83/84-04R(1-2)_061720											
.08		1000	RFI-83/84-14R(1-2)_061720											
.09		1020	RFI-83/84-40R(1-3)_061720											
.10		1040	RFI-83/84-12R(3-5)_061720											
.11		1105	SB-83/84-57(1-2.8)_061720											
.12		1110	SB-83/84-57(3-5)_061720											

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Elr ☒ Sampler	DATE: 6/18/2020	TIME: 1706	
RECEIVED BY: SIGNATURE/ORGANIZATION: Mini-mobile	DATE: 6/18/2020	TIME: 1700	
RELINQUISHED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Dan Richmond	DATE: 6/19/20	TIME: 1330	
RECEIVED BY: SIGNATURE/ORGANIZATION: Gary Sutton	DATE: 6/19/20	TIME: 1330	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 2.6
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 2 OF 4

134525

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: M. macki / MC Goddard / M. Humphrey / E. Kozak / J. Barker
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr., Suite #500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248-790-5218 | FAX NO.: | P.O. NO.: 30043300
E-MAIL ADDRESS: Joey.Barker@arcadis.com | QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | E-MAIL ADDRESS:

PROJECT NO./NAME: Buick City - RC Delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Ellen Redner / Elr

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☑ OTHER 5 Day TAT

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Lead (total) TCLP	Special Instructions
15013.13	6/17/20	1115	SB-83/84-57(5-7)_061720	S	1	X							X	Hold For TCLP
.14		1255	RFI-83/84-24R(5-7)_061720											"
.15		1400	SB-83/84-50(3-5)_061720											
.16		1405	SB-83/84-50(5-7)_061720											
.17		1410	SB-83/84-50(7-9)_061720											
.18		1435	RFI-83/84-23R(5-7)_061720											
.19		1535	SB-83/84-49(1-3)_061720											
.20		1540	SB-83/84-49(5-7)_061720											
.21		1545	SB-83/84-49(7-9)_061720											
.22	↓	1550	SB-83/84-49(9-11)_061720											
.23	6/18/20	0840	RFI-83/84-21R(7-9)_061820											
.24		0910	SB-83/84-55(1-3)_061820	↓	↓	↓							↓	↓

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE 6/18/2020	TIME 1700
RECEIVED BY: SIGNATURE/ORGANIZATION: Mini-Mobile		DATE 6/18/2020	TIME 1700
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 6/19/20	TIME 1330
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 6/19/20	TIME 1330
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

NOTES: TEMP. ON ARRIVAL 2.6

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C.O.C. PAGE # 3 OF 4

134526

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: M. Macki / MC Goddard / M. Humphrey / E. Kozak / J. Barker
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr., Suite #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.: 30043300
E-MAIL ADDRESS: Joey.Barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: Buick City - RC Delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Ellen Redner / [signature]
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ~~☒ STANDARD~~ ☑ OTHER 5 Day TAT
DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	LEAD (total) TCLP	PCBS	Special Instructions
15013.25	6/18/20	0915	SB-83/84-55(3-5)_061820	S	1	X							X		Hold for TCLP
.26		0920	SB-83/84-55(5-7)_061820												"
.27		0925	SB-83/84-55(7-9)_061820												"
.28		0930	SB-83/84-55(9-11)_061820												"
.29		0955	SB-83/84-48(1-3)_061820												"
.30		1000	SB-83/84-48(5-7)_061820												"
.31		1005	SB-83/84-48(7-9)_061820												"
.32		1010	SB-83/84-48(9-11)_061820												"
.33		1110	SB-10-79(1-3)_061820											X	
.34		1115	SB-10-79(4-6)_061820											X	
~~.35~~ DUP		~~1120~~	~~SB-10-79(8-10)_061820~~											X	[signature]
.35		1150	SB-10-78(1-3)_061820											X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature]	☒ Sampler	DATE 6/18/2020	TIME 1700
RECEIVED BY: SIGNATURE/ORGANIZATION Mini-mobile		DATE 6/18/2020	TIME 1700
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature]		DATE 6/19/20	TIME 1330
RECEIVED BY: SIGNATURE/ORGANIZATION [signature]		DATE 6/19/20	TIME 1330

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 2.6

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C.O.C. PAGE # 4 OF 4

134527

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: M. Macki / MC Goddard / M. Humphrey / E. Kozak / J. Barker
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr. Suite #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-740-5218 FAX NO.:
P.O. NO.: 30043300
E-MAIL ADDRESS: Joey.Barker@arcadis.com
QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: Buick City-RC Delineation
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Ellen Rebner / ER
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☒ OTHER 5 Day TAT
DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ~~☒ OTHER 5 DAY TAT~~

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	PCBs
150138	~~6/18/20~~			S	2	1	1							
.36	6/18/20	1155	SB-10-78(4-6)_061820	S	1	X								X
.?		1200	SB-10-78(8-10)_061820		1	X								X
.37	6/18/20	1300	SB-10-79(6-8)_061820	S	1	X								X
.38		1325	SB-10-78(6-7)_061820	S	1	X								X
.39		1400	SB-84-32(1-3)_061820	S	2	1					1		X	
.40		1405	SB-84-32(3-5)_061820	S	2	1					1		X	
.41		1435	SB-84-33(1-3)_061820	S	2	1					1		X	
.42		1440	SB-84-33(3-5)_061820	S	2	1					1		X	
.43		1520	SB-84-34(1-3)_061820	S	2	1					1		X	
.44		1525	SB-84-34(3-5)_061820	S	2	1					1		X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION: ER ☒ Sampler DATE 6/18/2020 TIME 1700
RECEIVED BY: SIGNATURE/ORGANIZATION: Mini-Mobile DATE 6/18/2020 TIME 1700
RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Dan Dixon / Arcadis DATE 6/19/20 TIME 1330
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE 6/19/20 TIME 1330

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 2.1°

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Rev. 5.18.12

Analytical Laboratory Report

Report ID: S16024.01(01)
Generated on 07/31/2020

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Megan Humphrey, Micki Maki, Joey Barker, Mary-Catherine Goddard

Report Summary

Lab Sample ID(s): S16024.01-S16024.21
Project: Buick City - RACER
Collected Date(s): 07/22/2020
Submitted Date/Time: 07/24/2020 16:22
Sampled by: Madison Olender
P.O. #: 30043300

Table of Contents

Cover Page (Page 1)
General Report Notes (Page 2)
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Laboratory Certifications (Page 3)
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Sample Summary (Page 5)



Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Analytical Laboratory Report

Sample Summary (21 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S16024.01	SB-81-65(1-3)_072220	Soil	07/22/20 11:33
S16024.02	SB-81-65(3-5)_072220	Soil	07/22/20 11:36
S16024.03	SB-81-65(5-7)_072220	Soil	07/22/20 11:39
S16024.04	SB-81-66(1-3)_072220	Soil	07/22/20 12:10
S16024.05	SB-81-66(3-5)_072220	Soil	07/22/20 12:13
S16024.06	SB-81-66(5-7)_072220	Soil	07/22/20 12:16
S16024.07	SB-81-68(1-3)_072220	Soil	07/22/20 12:37
S16024.08	SB-81-68(3-5)_072220	Soil	07/22/20 12:40
S16024.09	SB-81-68(5-7)_072220	Soil	07/22/20 12:43
S16024.10	SB-81-67(1-3)_072220	Soil	07/22/20 09:40
S16024.11	SB-81-67(3-5)_072220	Soil	07/22/20 09:43
S16024.12	SB-81-67(5-7)_072220	Soil	07/22/20 09:46
S16024.13	SB-81-64(1-3)_072220	Soil	07/22/20 10:10
S16024.14	SB-81-64(3-5)_072220	Soil	07/22/20 10:12
S16024.15	SB-81-64(5-7)_072220	Soil	07/22/20 10:14
S16024.16	SB-81-63(1-3)_072220	Soil	07/22/20 10:28
S16024.17	SB-81-63(3-5)_072220	Soil	07/22/20 10:31
S16024.18	SB-81-63(5-7)_072220	Soil	07/22/20 10:34
S16024.19	SB-81-62(1-3)_072220	Soil	07/22/20 11:05
S16024.20	SB-81-62(3-5)_072220	Soil	07/22/20 11:08
S16024.21	SB-81-62(5-7)_072220	Soil	07/22/20 11:11

Analytical Laboratory Report

Lab Sample ID: S16024.01
Sample Tag: SB-81-65(1-3)_072220
Collected Date/Time: 07/22/2020 11:33
Matrix: Soil
COC Reference: 128297

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/28/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 15:51, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/30/20 18:34, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.02
Sample Tag: SB-81-65(3-5)_072220
Collected Date/Time: 07/22/2020 11:36
Matrix: Soil
COC Reference: 128297

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/28/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 15:51, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	75	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/30/20 18:46, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.03
Sample Tag: SB-81-65(5-7)_072220
Collected Date/Time: 07/22/2020 11:39
Matrix: Soil
COC Reference: 128297

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/28/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 15:51, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/30/20 18:58, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.04
Sample Tag: SB-81-66(1-3)_072220
Collected Date/Time: 07/22/2020 12:10
Matrix: Soil
COC Reference: 128297

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/28/20 16:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 15:51, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/30/20 19:10, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.05
Sample Tag: SB-81-66(3-5)_072220
Collected Date/Time: 07/22/2020 12:13
Matrix: Soil
COC Reference: 128297

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/30/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 15:51, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/30/20 18:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.06
Sample Tag: SB-81-66(5-7)_072220
Collected Date/Time: 07/22/2020 12:16
Matrix: Soil
COC Reference: 128297

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/30/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 15:51, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/30/20 18:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.07
Sample Tag: SB-81-68(1-3)_072220
Collected Date/Time: 07/22/2020 12:37
Matrix: Soil
COC Reference: 128297

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/30/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 15:51, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/31/20 14:35, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.08
Sample Tag: SB-81-68(3-5)_072220
Collected Date/Time: 07/22/2020 12:40
Matrix: Soil
COC Reference: 128297

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/30/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 15:51, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/30/20 19:03, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.09
Sample Tag: SB-81-68(5-7)_072220
Collected Date/Time: 07/22/2020 12:43
Matrix: Soil
COC Reference: 128297

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/30/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 15:51, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/31/20 14:47, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S16024.10
Sample Tag: SB-81-67(1-3)_072220
Collected Date/Time: 07/22/2020 09:40
Matrix: Soil
COC Reference: 135884

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/30/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 15:51, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/30/20 19:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.11
Sample Tag: SB-81-67(3-5)_072220
Collected Date/Time: 07/22/2020 09:43
Matrix: Soil
COC Reference: 135884

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/30/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 15:51, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/30/20 19:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.12
Sample Tag: SB-81-67(5-7)_072220
Collected Date/Time: 07/22/2020 09:46
Matrix: Soil
COC Reference: 135884

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/30/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 16:48, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/30/20 19:36, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.13
Sample Tag: SB-81-64(1-3)_072220
Collected Date/Time: 07/22/2020 10:10
Matrix: Soil
COC Reference: 135884

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/30/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 16:48, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/30/20 19:48, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.14
Sample Tag: SB-81-64(3-5)_072220
Collected Date/Time: 07/22/2020 10:12
Matrix: Soil
COC Reference: 135884

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/30/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 16:48, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	77	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/30/20 19:59, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.15
Sample Tag: SB-81-64(5-7)_072220
Collected Date/Time: 07/22/2020 10:14
Matrix: Soil
COC Reference: 135884

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/30/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 16:48, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	78	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/30/20 20:10, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.16
Sample Tag: SB-81-63(1-3)_072220
Collected Date/Time: 07/22/2020 10:28
Matrix: Soil
COC Reference: 135884

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/30/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 16:48, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/31/20 14:59, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.17
Sample Tag: SB-81-63(3-5)_072220
Collected Date/Time: 07/22/2020 10:31
Matrix: Soil
COC Reference: 135884

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/30/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 16:48, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/30/20 20:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.18
Sample Tag: SB-81-63(5-7)_072220
Collected Date/Time: 07/22/2020 10:34
Matrix: Soil
COC Reference: 135884

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/30/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 16:48, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/30/20 20:32, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.19
Sample Tag: SB-81-62(1-3)_072220
Collected Date/Time: 07/22/2020 11:05
Matrix: Soil
COC Reference: 135884

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/30/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 16:48, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/30/20 20:43, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.20
Sample Tag: SB-81-62(3-5)_072220
Collected Date/Time: 07/22/2020 11:08
Matrix: Soil
COC Reference: 135884

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/30/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 07/28/20 16:48, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/30/20 17:24, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S16024.21
Sample Tag: SB-81-62(5-7)_072220
Collected Date/Time: 07/22/2020 11:11
Matrix: Soil
COC Reference: 135884

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/31/20 11:00	JL	

Inorganics

Method: SM2540B, Run Date: 07/28/20 16:48, Analyst: DJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/31/20 14:47, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S16024
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: Buick City - RACER
Submitted: 07/24/2020 16:22 Login User: MMC

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 5.9
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[ ] Yes	[X] No	[ ] N/A	COC signed and relinquished to the lab	The second COC was not received when the samples were dropped off. It was emailed by Madison
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____ 128297

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: M Macki / MC Goddard / ~~M~~ Humphrey / E Kozak / J Barker
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr Suite #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 FAX NO.: P.O. NO.: 30043300
E-MAIL ADDRESS: Joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: BUICK City - RACER
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olendar

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBS
160249.01	7/22/20	1133	SB-81-65(1-3)_072220	S	1	X							X
.02		1136	SB-81-65(3-5)_072220										
.03		1139	SB-81-65(5-7)_072220										
.04		1210	SB-81-66(1-3)_072220										
.05		1213	SB-81-66(3-5)_072220										
.06		1216	SB-81-66(5-7)_072220										
.07		1237	SB-81-68(1-3)_072220										
.08		1240	SB-81-68(3-5)_072220										
.09		1243	SB-81-68(5-7)_072220										

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE 7/24/20	TIME 1530
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 7/24/20	TIME 1531
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 7/24/20	TIME 1622
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 7/24/2020	TIME 1622

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 5.9

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

1/1

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # ____ OF ____ 135884

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: N Mackie / MC Goddard / M Humphrey / E Kozak / S Barker
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr # 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 FAX NO.: P.O. NO.: 30043300
E-MAIL ADDRESS: joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: Buick City - Racer
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
16024.10	7/22/20	0940	SB-81-67(1-3)_072220	S	1	X							X
.11	"	0943	SB-81-67(3-5)_072220										
.12		0946	SB-81-67(5-7)_072220										
.13		1010	SB-81-64(1-3)_072220										
.14		1012	SB-81-64(3-5)_072220										
.15		1014	SB-81-64(5-7)_072220										
.16		1028	SB-81-63(1-3)_072220										
.17		1031	SB-81-63(3-5)_072220										
.18		1034	SB-81-63(5-7)_072220										
.19		1105	SB-81-62(1-3)_072220										
.20		1108	SB-81-62(3-5)_072220										
.21		1111	SB-81-62(5-7)_072220										

RELINQUISHED BY: SIGNATURE/ORGANIZATION ☐ Sampler	DATE	TIME	RELINQUISHED BY: SIGNATURE/ORGANIZATION
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RECEIVED BY: SIGNATURE/ORGANIZATION M Olender
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	DATE 7/24/2020 TIME 1622
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
			SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL: 5.9

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.20

Image.jpeg
7/27/2020
https://mail.google.com/mail/u/0/#inbox/FMfcgxwJXCCfdplKlbRpCTcHtbgBRcJM?projector=1

Analytical Laboratory Report

Report ID: S24678.01(01)+QC01
Generated on 06/08/2021

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Addtional Contacts: Deb Newcom, Micki Maki, Megan Humphrey

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S24678.01
Project: 30075935.01934
Collected Date(s): 05/26/2021
Submitted Date/Time: 05/26/2021 16:00
Sampled by: Donald Richmond
P.O. #: 30075935.01934

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
E335.4/SM4500-CN	EPA Method 335.4 Revision 1.0 / Standard Method 4500-CN E 20th Edition
SM2540B	Standard Method 2540 B 2011
SW1030	SW 846 Method 1030 Revision 0 December 1996
SW1311	SW 846 Method 1311 Revision 0 July 1992
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW3535A	SW 846 Method 3535A Revision 1 February 2007
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW5030C/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5030C Revision 3 May 2003
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW7471B	SW 846 Method 7471B Revision 2 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8270D	SW 846 Method 8270D Revision 4 February 2007
SW9030B	SW 846 Method 9030B Revision 2 December 1996
SW9045D	SW 846 Method 9045D Revision 4 November 2004

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S24678.01	Bob2Sediment_052621	Solid	05/26/21 10:30

Analytical Laboratory Report

Lab Sample ID: S24678.01
Sample Tag: Bob2Sediment_052621
Collected Date/Time: 05/26/2021 10:30
Matrix: Solid
COC Reference: 146062

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	32oz Glass	None	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
TCLP Zero Headspace Ext.	Completed	SW1311	06/04/21 17:00	ELR	
Metal Digestion*	Completed	SW3015A	06/08/21 11:10	CCM	
TCLP/SPLP BNA Extraction*	Completed	SW3535A	06/07/21 13:00	PTW	
Extraction, PCB*	Completed	SW3546	06/03/21 11:00	TTV	
Mercury Digestion	Completed	SW7471B	06/08/21 09:15	JRH	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Inital Sample pH	7.46	SW1311	06/04/21 17:00 - 06/05/21	ELR	
pH after 3.5 ml HCl	2.75	SW1311	06/04/21 17:00 - 06/05/21	ELR	
% Solids	100	SW1311	06/04/21 17:00 - 06/05/21	ELR	
Sample Used g	100	SW1311	06/04/21 17:00 - 06/05/21	ELR	
Final Volume mL	2000	SW1311	06/04/21 17:00 - 06/05/21	ELR	
TCLP Extraction Fluid	1	SW1311	06/04/21 17:00 - 06/05/21	ELR	
Final Extract pH	5.77	SW1311	06/04/21 17:00 - 06/05/21	ELR	

Inorganics

Method: E335.4/SM4500-CN, Run Date: 06/01/21 12:00, Analyst: JDP

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Reactive Cyanide*	Not detected	0.6		mg/kg	296	57-12-5		

Method: SM2540B, Run Date: 05/28/21 15:35, Analyst: BJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	36	1		%	1			

Method: SW1030, Run Date: 06/01/21 17:30, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Flashpoint for Solids	Not detected	2.2		mm/sec	1			

Method: SW9030B, Run Date: 06/01/21 14:08, Analyst: JDP

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Reactive Sulfide*	5.0	2.2		mg/kg	108	18496-25-8	1	

Method: SW9045D, Run Date: 06/01/21 12:54, Analyst: PJH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
pH/ Corrosivity	7.11	0.01		STD Units	1			2-12.5

Metals

Method: SW6020A, Run Date: 06/08/21 13:50, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Arsenic, TCLP	0.13	0.02		mg/L	25	7440-38-2		5.0

1-* Total Sulfide = 177 mg/kg

Lab Sample ID: S24678.01 (continued)
Sample Tag: Bob2Sediment_052621

Method: SW6020A, Run Date: 06/08/21 13:50, Analyst: CCM (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Barium, TCLP	0.59	0.05		mg/L	25	7440-39-3		100.0
Cadmium, TCLP	Not detected	0.005		mg/L	25	7440-43-9		1.0
Chromium, TCLP	Not detected	0.05		mg/L	25	7440-47-3		5.0
Lead, TCLP	Not detected	0.03		mg/L	25	7439-92-1		5.0
Selenium, TCLP	Not detected	0.05		mg/L	25	7782-49-2		1.0
Silver, TCLP	Not detected	0.005		mg/L	25	7440-22-4		5.0

Method: SW7471B, Run Date: 06/08/21 13:12, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Mercury, TCLP	Not detected	0.0005		mg/L	2	7439-97-6		0.2

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 06/03/21 23:44, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	1,000		ug/kg	10	12674-11-2		
PCB-1242	2,000	1,000		ug/kg	10	53469-21-9		
PCB-1221	Not detected	1,000		ug/kg	10	11104-28-2		
PCB-1232	Not detected	1,000		ug/kg	10	11141-16-5		
PCB-1248	Not detected	1,000		ug/kg	10	12672-29-6		
PCB-1254	Not detected	1,000		ug/kg	10	11097-69-1		
PCB-1260	Not detected	1,000		ug/kg	10	11096-82-5		

Organics - Semi-Volatiles

TCLP Semi Volatiles, Method: SW8270D, Run Date: 06/07/21 19:20, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
2-Methylphenol (o-Cresol)	Not detected	1,000		ug/L	10	95-48-7		200,000
3-, 4-Methylphenol (p,m-Cresol)	Not detected	1,000		ug/L	10	3/4-CRESOL		200,000
Pentachlorophenol	Not detected	1,000		ug/L	10	87-86-5		100,000
2,4,5-Trichlorophenol	Not detected	1,000		ug/L	10	95-95-4		400,000
2,4,6-Trichlorophenol	Not detected	1,000		ug/L	10	88-06-2		2,000
2,4-Dinitrotoluene	Not detected	90		ug/L	10	121-14-2		130
Hexachlorobenzene	Not detected	90		ug/L	10	118-74-1		130
Hexachlorobutadiene	Not detected	100		ug/L	10	87-68-3		500
Hexachloroethane	Not detected	100		ug/L	10	67-72-1		3,000
Nitrobenzene	Not detected	100		ug/L	10	98-95-3		2,000
Pyridine	Not detected	100		ug/L	10	110-86-1		5,000

Organics - Volatiles

TCLP Volatiles, Method: SW5030C/8260C, Run Date: 06/07/21 16:07, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Benzene*	Not detected	100		ug/L	100	71-43-2		500
Carbon tetrachloride*	Not detected	100		ug/L	100	56-23-5		500
Chlorobenzene*	Not detected	100		ug/L	100	108-90-7		100,000
Chloroform*	Not detected	100		ug/L	100	67-66-3		6,000
1,4-Dichlorobenzene*	Not detected	100		ug/L	100	106-46-7		7,500
1,2-Dichloroethane*	Not detected	100		ug/L	100	107-06-2		500
1,1-Dichloroethene*	Not detected	100		ug/L	100	75-35-4		700
2-Butanone (MEK)*	Not detected	1,000		ug/L	100	78-93-3		200,000
Tetrachloroethene*	Not detected	100		ug/L	100	127-18-4		700
Trichloroethene*	Not detected	100		ug/L	100	79-01-6		500

Lab Sample ID: S24678.01 (continued)

Sample Tag: Bob2Sediment_052621

TCLP Volatiles, Method: SW5030C/8260C, Run Date: 06/07/21 16:07, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Vinyl chloride*	Not detected	100		ug/L	100	75-01-4		200

Quality Control Report

Report ID: S24678.01(01)+QC01
Generated on 06/08/2021

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:

Report Produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S24678.01
Project: 30075935.01934
Submitted Date/Time: 05/26/2021 16:00
Sampled by: Donald Richmond
P.O. #: 30075935.01934

QC Report Sections

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Surrogates per QC Sample (Pages 13-15)
Internal Standards per Lab Sample (Page 16)
Internal Standards per QC Sample (Pages 17-18)
Batch QC Results (Pages 19-29)

Report Flag Descriptions

*: QC result is outside of indicated control limits
W: Surrogate result not applicable due to sample dilution

I certify that this data package is in compliance with the terms and conditions of the program, and project, and contractual requirements both technically and for completeness. Release of the data contained in this hardcopy data package and its computer-readable data submitted has been authorized by the Quality Assurance Manager and his/her designee, as verified by the following signature.

Barbara Ball
Quality Assurance Manager

Lab Sample ID: S24678.01
Sample Tag: Bob2Sediment_052621
Collected Date/Time: 05/26/2021 10:30
Matrix: Solid
COC Reference: 146062

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Reactive Cyanide	E335.4/SM4500-CN	06/01/21 12:00	CN210601-S1	CN210601-S1	No	BLK/LCS/MS/MSD/DU
Reactive Sulfide	SW9030B	06/01/21 14:08	SFD210601-S1	SFD210601-S1	No	BLK/LCS/MS/MSD/DU
Total Solids	SM2540B	05/28/21 15:35	TS210528A	TS210528A	No	BLK/LCS/DUP
Metals						
Arsenic, TCLP	SW6020A	06/08/21 13:50	MT4-21-0608A	MTD-060821-4	No	BLK/LCS/MS/MSD
Barium, TCLP	SW6020A	06/08/21 13:50	MT4-21-0608A	MTD-060821-4	No	BLK/LCS/MS/MSD
Cadmium, TCLP	SW6020A	06/08/21 13:50	MT4-21-0608A	MTD-060821-4	No	BLK/LCS/MS/MSD
Chromium, TCLP	SW6020A	06/08/21 13:50	MT4-21-0608A	MTD-060821-4	No	BLK/LCS/MS/MSD
Lead, TCLP	SW6020A	06/08/21 13:50	MT4-21-0608A	MTD-060821-4	No	BLK/LCS/MS/MSD
Mercury, TCLP	SW7471B	06/08/21 13:12	HG2-HG3-21-0608A	HGD-060821-1	No	BLK/LCS/MS/MSD/DU
Selenium, TCLP	SW6020A	06/08/21 13:50	MT4-21-0608A	MTD-060821-4	No	BLK/LCS/MS/MSD
Silver, TCLP	SW6020A	06/08/21 13:50	MT4-21-0608A	MTD-060821-4	No	BLK/LCS/MS/MSD
Organics - PCBs/Pesticides						
PCB List	SW8082A	06/03/21 23:44	E210603	PA210603S3	Yes	BLK/LCS/LCSD
Organics - Semi-Volatiles						
TCLP Semi Volatiles	SW8270D	06/07/21 19:20	Z210607	TF210607W1	Yes	BLK/LCS/LCSD
Organics - Volatiles						
TCLP Volatiles	SW5030C/8260C	06/07/21 16:07	210607A5	VF210607S1	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Prep Batch Summary

Inorganics, Prep Batch ID: CN210601-S1

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S24678.01	Reactive Cyanide	E335.4/SM4500-CN	06/01/21 12:00	CN210601-S1

Inorganics, Prep Batch ID: SFD210601-S1

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S24678.01	Reactive Sulfide	SW9030B	06/01/21 14:08	SFD210601-S1

Inorganics, Prep Batch ID: TS210528A

Surrogates: No, QC Types: BLK/LCS/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S24678.01	Total Solids	SM2540B	05/28/21 15:35	TS210528A

Metals, Prep Batch ID: HGD-060821-1

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S24678.01	Mercury, TCLP	SW7471B	06/08/21 13:12	HG2-HG3-21-0608A

Metals, Prep Batch ID: MTD-060821-4

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S24678.01	Arsenic, TCLP	SW6020A	06/08/21 13:50	MT4-21-0608A
S24678.01	Barium, TCLP	SW6020A	06/08/21 13:50	MT4-21-0608A
S24678.01	Cadmium, TCLP	SW6020A	06/08/21 13:50	MT4-21-0608A
S24678.01	Chromium, TCLP	SW6020A	06/08/21 13:50	MT4-21-0608A
S24678.01	Lead, TCLP	SW6020A	06/08/21 13:50	MT4-21-0608A
S24678.01	Selenium, TCLP	SW6020A	06/08/21 13:50	MT4-21-0608A
S24678.01	Silver, TCLP	SW6020A	06/08/21 13:50	MT4-21-0608A

Organics - PCBs/Pesticides, Prep Batch ID: PA210603S3

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S24678.01	PCB List	SW8082A	06/03/21 23:44	E210603

Organics - Semi-Volatiles, Prep Batch ID: TF210607W1

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S24678.01	TCLP Semi Volatiles	SW8270D	06/07/21 19:20	Z210607

Organics - Volatiles, Prep Batch ID: VF210607S1

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S24678.01	TCLP Volatiles	SW5030C/8260C	06/07/21 16:07	210607A5

QC Report - Surrogates per Lab Sample

Lab Sample ID: S24678.01

Sample Tag: Bob2Sediment_052621

Collected Date/Time: 05/26/2021 10:30

Matrix: Solid

COC Reference: 146062

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E210603, Run Date: 06/03/2021 23:44, Matrix: SO, Dilution: 10

Surrogate	Flags	%Rec	LCL	UCL
TCX	W	**90.00**	33.0	135.3
DCBP	W	**62.00**	30.0	137.0

Organics - Semi-Volatiles, Analysis: TCLP Semi Volatiles

Run in Batch: Z210607, Run Date: 06/07/2021 19:20, Matrix: WW, Dilution: 10

Surrogate	Flags	%Rec	LCL	UCL
2-Fluorophenol		**65.2**	10.0	110.0
Phenol-D5		**52.9**	10.0	110.0
Nitrobenzene-D5		**58.4**	10.0	114.0
2-Fluorobiphenyl		**70.0**	10.0	116.0
2,4,6-Tribromophenol		**62.7**	10.0	123.0
Terphenyl-D14		**42.1**	10.0	141.0

Organics - Volatiles, Analysis: TCLP Volatiles

Run in Batch: 210607A5, Run Date: 06/07/2021 16:07, Matrix: WW, Dilution: 100

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**108.2**	80.0	124.0
1,2-Dichloroethane-D4		**92.8**	72.0	125.0
Toluene-D8		**99.6**	89.0	112.0

Organics - PCBs/Pesticides, Prep Batch ID: PA210603S3

QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: a21060313.sblk-s.03

Run in Batch: A210603, Run Date: 06/03/2021 17:17, Prep Date: 06/03/2021, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		**77.30**	33.0	135.3
DCBP		**75.20**	30.0	137.0

Laboratory Control Sample (LCS)

Lab Sample ID: a21060314.slcs-s.03

Run in Batch: A210603, Run Date: 06/03/2021 17:28, Prep Date: 06/03/2021, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		**66.50**	33.0	135.3
DCBP		**73.50**	30.0	137.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: a21060315.slcs-s.03d, Parent Sample ID: a21060314.slcs-s.03

Run in Batch: A210603, Run Date: 06/03/2021 17:39, Prep Date: 06/03/2021, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		**84.80**	33.0	135.3
DCBP		**80.80**	30.0	137.0

QC Report - Surrogates per QC Sample

Organics - Semi-Volatiles, Prep Batch ID: TF210607W1

QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: Z210607.BLKW07A

Run in Batch: Z210607, Run Date: 06/07/2021 15:09, Prep Date: 06/07/2021, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
2-Fluorophenol		**26.3**	10.0	110.0
Phenol-D5		**29.3**	10.0	110.0
Nitrobenzene-D5		**32.2**	10.0	114.0
2-Fluorobiphenyl		**38.9**	10.0	116.0
2,4,6-Tribromophenol		**25.9**	10.0	123.0
Terphenyl-D14		**56.2**	10.0	141.0

Laboratory Control Sample (LCS)

Lab Sample ID: Z210607.LCSW07A

Run in Batch: Z210607, Run Date: 06/07/2021 17:45, Prep Date: 06/07/2021, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
2-Fluorophenol		**52.8**	10.0	110.0
Phenol-D5		**52.1**	10.0	110.0
Nitrobenzene-D5		**55.1**	10.0	114.0
2-Fluorobiphenyl		**59.8**	10.0	116.0
2,4,6-Tribromophenol		**64.9**	10.0	123.0
Terphenyl-D14		**70.2**	10.0	141.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: Z210607.LCSDW07A, Parent Sample ID: Z210607.LCSW07A

Run in Batch: Z210607, Run Date: 06/07/2021 18:09, Prep Date: 06/07/2021, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
2-Fluorophenol		**55.7**	10.0	110.0
Phenol-D5		**54.7**	10.0	110.0
Nitrobenzene-D5		**57.8**	10.0	114.0
2-Fluorobiphenyl		**62.3**	10.0	116.0
2,4,6-Tribromophenol		**67.9**	10.0	123.0
Terphenyl-D14		**72.9**	10.0	141.0

Organics - Volatiles, Prep Batch ID: VF210607S1

QC Types: BLK/LCS/LCSD/MS/MSD

Blank (BLK)

Lab Sample ID: 210607A5.BLKS07A

Run in Batch: 210607A5, Run Date: 06/07/2021 14:36, Prep Date: 06/07/2021, Matrix: SO, Dilution: 50

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**105.9**	81.0	124.0
1,2-Dichloroethane-D4		**94.0**	71.0	124.0
Toluene-D8		**100.5**	83.0	120.0

Laboratory Control Sample (LCS)

Lab Sample ID: 210607A5.LCSS07A

Run in Batch: 210607A5, Run Date: 06/07/2021 12:42, Prep Date: 06/07/2021, Matrix: SO, Dilution: 50

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**108.7**	81.0	124.0
1,2-Dichloroethane-D4		**97.3**	71.0	124.0
Toluene-D8		**99.2**	83.0	120.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 210607A5.LCSDS07A, Parent Sample ID: 210607A5.LCSS07A

Run in Batch: 210607A5, Run Date: 06/07/2021 13:05, Prep Date: 06/07/2021, Matrix: SO, Dilution: 50

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**109.5**	81.0	124.0
1,2-Dichloroethane-D4		**95.7**	71.0	124.0
Toluene-D8		**99.0**	83.0	120.0

Matrix Spike (MS)

Lab Sample ID: 210607A5.2471603M, Parent Sample ID: S24716.02

Run in Batch: 210607A5, Run Date: 06/07/2021 13:28, Prep Date: 06/07/2021, Matrix: SO, Dilution: 59.1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**109.6**	81.0	124.0
1,2-Dichloroethane-D4		**96.3**	71.0	124.0
Toluene-D8		**99.5**	83.0	120.0

Matrix Spike Duplicate (MSD)

Lab Sample ID: 210607A5.2471604N, Parent Sample ID: 210607A5.2471603M

Run in Batch: 210607A5, Run Date: 06/07/2021 13:51, Prep Date: 06/07/2021, Matrix: SO, Dilution: 61.5

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**108.9**	81.0	124.0
1,2-Dichloroethane-D4		**97.7**	71.0	124.0
Toluene-D8		**99.4**	83.0	120.0

QC Report - Internal Standards per Lab Sample

Lab Sample ID: S24678.01

Sample Tag: Bob2Sediment_052621

Collected Date/Time: 05/26/2021 10:30

Matrix: Solid

COC Reference: 146062

Organics - Semi-Volatiles, Analysis: TCLP Semi Volatiles

Run in Batch: Z210607, Run Date: 06/07/2021 19:20, Matrix: WW, Dilution: 10

Internal Standard	Flags	%Rec	LCL	UCL
1,4-Dichlorobenzene-D4		**83.5**	50.0	200.0
Naphthalene-D8		**85.8**	50.0	200.0
Acenaphthalene-D10		**82.1**	50.0	200.0
Phenanthrene-D10		**84.0**	50.0	200.0

Organics - Volatiles, Analysis: TCLP Volatiles

Run in Batch: 210607A5, Run Date: 06/07/2021 16:07, Matrix: WW, Dilution: 100

Internal Standard	Flags	%Rec	LCL	UCL
Pentafluorobenzene		**109.4**	50.0	200.0
1,4-Difluorobenzene		**108.6**	50.0	200.0
Chlorobenzene-D5		**110.1**	50.0	200.0
1,4-Dichlorobenzene-D4		**109.0**	50.0	200.0

Organics - Semi-Volatiles, Prep Batch ID: TF210607W1

QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: Z210607.BLKW07A

Run in Batch: Z210607, Run Date: 06/07/2021 15:09, Prep Date: 06/07/2021, Matrix: WW, Dilution: 1

Internal Standard	Flags	%Rec	LCL	UCL
1,4-Dichlorobenzene-D4		**75.3**	50.0	200.0
Naphthalene-D8		**77.2**	50.0	200.0
Acenaphthalene-D10		**72.5**	50.0	200.0
Phenanthrene-D10		**74.1**	50.0	200.0

Laboratory Control Sample (LCS)

Lab Sample ID: Z210607.LCSW07A

Run in Batch: Z210607, Run Date: 06/07/2021 17:45, Prep Date: 06/07/2021, Matrix: WW, Dilution: 1

Internal Standard	Flags	%Rec	LCL	UCL
1,4-Dichlorobenzene-D4		**78.7**	50.0	200.0
Naphthalene-D8		**80.8**	50.0	200.0
Acenaphthalene-D10		**77.3**	50.0	200.0
Phenanthrene-D10		**79.9**	50.0	200.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: Z210607.LCSDW07A, Parent Sample ID: Z210607.LCSW07A

Run in Batch: Z210607, Run Date: 06/07/2021 18:09, Prep Date: 06/07/2021, Matrix: WW, Dilution: 1

Internal Standard	Flags	%Rec	LCL	UCL
1,4-Dichlorobenzene-D4		**76.0**	50.0	200.0
Naphthalene-D8		**77.7**	50.0	200.0
Acenaphthalene-D10		**75.0**	50.0	200.0
Phenanthrene-D10		**77.9**	50.0	200.0

Organics - Volatiles, Prep Batch ID: VF210607S1

QC Types: BLK/LCS/LCSD/MS/MSD

Blank (BLK)

Lab Sample ID: 210607A5.BLKS07A

Run in Batch: 210607A5, Run Date: 06/07/2021 14:36, Prep Date: 06/07/2021, Matrix: SO, Dilution: 50

Internal Standard	Flags	%Rec	LCL	UCL
Pentafluorobenzene		**107.4**	50.0	200.0
1,4-Difluorobenzene		**106.1**	50.0	200.0
Chlorobenzene-D5		**107.9**	50.0	200.0
1,4-Dichlorobenzene-D4		**106.3**	50.0	200.0

Laboratory Control Sample (LCS)

Lab Sample ID: 210607A5.LCSS07A

Run in Batch: 210607A5, Run Date: 06/07/2021 12:42, Prep Date: 06/07/2021, Matrix: SO, Dilution: 50

Internal Standard	Flags	%Rec	LCL	UCL
Pentafluorobenzene		**104.9**	50.0	200.0
1,4-Difluorobenzene		**104.3**	50.0	200.0
Chlorobenzene-D5		**103.9**	50.0	200.0
1,4-Dichlorobenzene-D4		**101.1**	50.0	200.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 210607A5.LCSDS07A, Parent Sample ID: 210607A5.LCSS07A

Run in Batch: 210607A5, Run Date: 06/07/2021 13:05, Prep Date: 06/07/2021, Matrix: SO, Dilution: 50

Internal Standard	Flags	%Rec	LCL	UCL
Pentafluorobenzene		**110.6**	50.0	200.0
1,4-Difluorobenzene		**108.7**	50.0	200.0
Chlorobenzene-D5		**107.8**	50.0	200.0
1,4-Dichlorobenzene-D4		**104.8**	50.0	200.0

Matrix Spike (MS)

Lab Sample ID: 210607A5.2471603M, Parent Sample ID: S24716.02

Run in Batch: 210607A5, Run Date: 06/07/2021 13:28, Prep Date: 06/07/2021, Matrix: SO, Dilution: 59.1

Internal Standard	Flags	%Rec	LCL	UCL
Pentafluorobenzene		**110.5**	50.0	200.0
1,4-Difluorobenzene		**108.3**	50.0	200.0
Chlorobenzene-D5		**107.7**	50.0	200.0
1,4-Dichlorobenzene-D4		**103.7**	50.0	200.0

Matrix Spike Duplicate (MSD)

Lab Sample ID: 210607A5.2471604N, Parent Sample ID: 210607A5.2471603M

Run in Batch: 210607A5, Run Date: 06/07/2021 13:51, Prep Date: 06/07/2021, Matrix: SO, Dilution: 61.5

Internal Standard	Flags	%Rec	LCL	UCL
Pentafluorobenzene		**110.0**	50.0	200.0
1,4-Difluorobenzene		**108.5**	50.0	200.0
Chlorobenzene-D5		**107.7**	50.0	200.0
1,4-Dichlorobenzene-D4		**104.7**	50.0	200.0

Inorganics, Prep Batch ID: CN210601-S1

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Blank (BLK)

Lab Sample ID: CN210601-S1.LRB1

Run in Batch: CN210601-S1, Run Date: 06/01/2021 11:30, Prep Date: 06/01/2021, Matrix: Liquid, Dilution: 2

Analyte	Flags	Conc	RDL	Units
Reactive Cyanide		ND	0.004	mg/L

Blank (BLK)

Lab Sample ID: CN210601-S1.LRB2

Run in Batch: CN210601-S1, Run Date: 06/01/2021 11:38, Prep Date: 06/01/2021, Matrix: Soil, Dilution: 40

Analyte	Flags	Conc	RDL	Units
Reactive Cyanide		ND	0.08	mg/kg

Laboratory Control Sample (LCS)

Lab Sample ID: CN210601-S1.LCS1

Run in Batch: CN210601-S1, Run Date: 06/01/2021 11:36, Prep Date: 06/01/2021, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Reactive Cyanide		105	90	110

Matrix Spike (MS)

Lab Sample ID: CN210601-S1.MS1, Parent Sample ID: S24695.02

Run in Batch: CN210601-S1, Run Date: 06/01/2021 11:44, Prep Date: 06/01/2021, Matrix: Soil, Dilution: 40

Analyte	Flags	% Rec	LCL	UCL
Reactive Cyanide		88	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: CN210601-S1.MSD1, Parent Sample ID: CN210601-S1.MS1

Run in Batch: CN210601-S1, Run Date: 06/01/2021 11:46, Prep Date: 06/01/2021, Matrix: Soil, Dilution: 40

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Reactive Cyanide		88	80	120	0	15

Duplicate (DUP)

Lab Sample ID: CN210601-S1.DP1, Parent Sample ID: S24695.02

Run in Batch: CN210601-S1, Run Date: 06/01/2021 11:42, Prep Date: 06/01/2021, Matrix: Soil, Dilution: 40

Analyte	Flags	RPD	RPD CL
Reactive Cyanide		<1	15

Inorganics, Prep Batch ID: SFD210601-S1

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Blank (BLK)

Lab Sample ID: SFD210601-S1.LRB1

Run in Batch: SFD210601-S1, Run Date: 06/01/2021 09:30, Prep Date: 06/01/2021, Matrix: Liquid, Dilution: 2

Analyte	Flags	Conc	RDL	Units
Reactive Sulfide		ND	0.04	mg/L

Blank (BLK)

Lab Sample ID: SFD210601-S1.LRB2

Run in Batch: SFD210601-S1, Run Date: 06/01/2021 09:36, Prep Date: 06/01/2021, Matrix: Soil, Dilution: 40

Analyte	Flags	Conc	RDL	Units
Reactive Sulfide		ND	0.8	mg/kg

Blank (BLK)

Lab Sample ID: SFD210601-S1.LRB3

Run in Batch: SFD210601-S1, Run Date: 06/01/2021 14:00, Prep Date: 06/01/2021, Matrix: Liquid, Dilution: 2

Analyte	Flags	Conc	RDL	Units
Reactive Sulfide		ND	0.04	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: SFD210601-S1.LCS1

Run in Batch: SFD210601-S1, Run Date: 06/01/2021 09:34, Prep Date: 06/01/2021, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Reactive Sulfide		96	90	110

Laboratory Control Sample (LCS)

Lab Sample ID: SFD210601-S1.LCS2

Run in Batch: SFD210601-S1, Run Date: 06/01/2021 14:06, Prep Date: 06/01/2021, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Reactive Sulfide		53	50	110

Matrix Spike (MS)

Lab Sample ID: SFD210601-S1.MS1, Parent Sample ID: S24695.02

Run in Batch: SFD210601-S1, Run Date: 06/01/2021 09:42, Prep Date: 06/01/2021, Matrix: Soil, Dilution: 40

Analyte	Flags	% Rec	LCL	UCL
Reactive Sulfide		86	80	120

Matrix Spike (MS)

Lab Sample ID: SFD210601-S1.MS2, Parent Sample ID: S24678.01

Run in Batch: SFD210601-S1, Run Date: 06/01/2021 14:12, Prep Date: 06/01/2021, Matrix: Sludge, Dilution: 109

Analyte	Flags	% Rec	LCL	UCL
Reactive Sulfide		87	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: SFD210601-S1.MSD1, Parent Sample ID: SFD210601-S1.MS1

Run in Batch: SFD210601-S1, Run Date: 06/01/2021 09:44, Prep Date: 06/01/2021, Matrix: Soil, Dilution: 40

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Reactive Sulfide		84	80	120	2	15

Inorganics, Prep Batch ID: SFD210601-S1 (continued)

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Matrix Spike Duplicate (MSD)

Lab Sample ID: SFD210601-S1.MSD2, Parent Sample ID: SFD210601-S1.MS2

Run in Batch: SFD210601-S1, Run Date: 06/01/2021 14:14, Prep Date: 06/01/2021, Matrix: Sludge, Dilution: 109

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Reactive Sulfide		86	80	120	1	15

Duplicate (DUP)

Lab Sample ID: SFD210601-S1.DP1, Parent Sample ID: S24695.02

Run in Batch: SFD210601-S1, Run Date: 06/01/2021 09:40, Prep Date: 06/01/2021, Matrix: Soil, Dilution: 40

Analyte	Flags	RPD	RPD CL
Reactive Sulfide		<1	15

Duplicate (DUP)

Lab Sample ID: SFD210601-S1.DP2, Parent Sample ID: S24678.01

Run in Batch: SFD210601-S1, Run Date: 06/01/2021 14:10, Prep Date: 06/01/2021, Matrix: Sludge, Dilution: 109

Analyte	Flags	RPD	RPD CL
Reactive Sulfide		4	15

Inorganics, Prep Batch ID: TS210528A

Surrogates: No, QC Types: BLK/LCS/DUP

Blank (BLK)

Lab Sample ID: TS210528A.LRB1

Run in Batch: TS210528A, Run Date: 05/28/2021 15:35, Prep Date: 05/28/2021, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Total Solids		ND	1	%

Laboratory Control Sample (LCS)

Lab Sample ID: TS210528A.LCS1

Run in Batch: TS210528A, Run Date: 05/28/2021 15:35, Prep Date: 05/28/2021, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Solids		100	90	110

Duplicate (DUP)

Lab Sample ID: TS210528A.DP1, Parent Sample ID: S24190.04

Run in Batch: TS210528A, Run Date: 05/28/2021 15:35, Prep Date: 05/28/2021, Matrix: Soil, Dilution: 1

Analyte	Flags	RPD	RPD CL
Total Solids		0	5

Duplicate (DUP)

Lab Sample ID: TS210528A.DP2, Parent Sample ID: S24714.06

Run in Batch: TS210528A, Run Date: 05/28/2021 15:35, Prep Date: 05/28/2021, Matrix: Soil, Dilution: 1

Analyte	Flags	RPD	RPD CL
Total Solids		3	5

Metals, Prep Batch ID: HGD-060821-1

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Blank (BLK)

Lab Sample ID: HG2-HG3-21-0608A.017

Run in Batch: HG2-HG3-21-0608A, Run Date: 06/08/2021 13:11, Prep Date: 06/08/2021, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Mercury		ND	0.05	ug/L

Laboratory Control Sample (LCS)

Lab Sample ID: HG2-HG3-21-0608A.016

Run in Batch: HG2-HG3-21-0608A, Run Date: 06/08/2021 13:09, Prep Date: 06/08/2021, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Mercury		96	85	115

Matrix Spike (MS)

Lab Sample ID: HG2-HG3-21-0608A.026, Parent Sample ID: S24856.01

Run in Batch: HG2-HG3-21-0608A, Run Date: 06/08/2021 13:27, Prep Date: 06/08/2021, Matrix: Liquid, Dilution: 2

Analyte	Flags	% Rec	LCL	UCL
Mercury		103	80	120

Matrix Spike (MS)

Lab Sample ID: HG2-HG3-21-0608A.037, Parent Sample ID: S24916.02

Run in Batch: HG2-HG3-21-0608A, Run Date: 06/08/2021 13:47, Prep Date: 06/08/2021, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Mercury		96	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: HG2-HG3-21-0608A.038, Parent Sample ID: HG2-HG3-21-0608A.037

Run in Batch: HG2-HG3-21-0608A, Run Date: 06/08/2021 13:48, Prep Date: 06/08/2021, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Mercury		105	80	120	8	20

Duplicate (DUP)

Lab Sample ID: HG2-HG3-21-0608A.025, Parent Sample ID: S24856.01

Run in Batch: HG2-HG3-21-0608A, Run Date: 06/08/2021 13:25, Prep Date: 06/08/2021, Matrix: Liquid, Dilution: 2

Analyte	Flags	RPD	RPD CL
Mercury		0	20

Metals, Prep Batch ID: MTD-060821-4

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Blank (BLK)

Lab Sample ID: MT4-21-0608A.072.LRB

Run in Batch: MT4-21-0608A, Run Date: 06/08/2021 13:25, Prep Date: 06/08/2021, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Arsenic		ND	0.0004	mg/L
Barium		ND	0.001	mg/L
Cadmium		ND	0.0001	mg/L
Chromium		ND	0.001	mg/L
Lead		ND	0.0006	mg/L
Selenium		ND	0.001	mg/L
Silver		ND	0.0001	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: MT4-21-0608A.071.LCS

Run in Batch: MT4-21-0608A, Run Date: 06/08/2021 13:21, Prep Date: 06/08/2021, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Arsenic		101	85	115
Barium		94	85	115
Cadmium		98	85	115
Chromium		97	85	115
Lead		101	85	115
Selenium		98	85	115
Silver		101	85	115

Matrix Spike (MS)

Lab Sample ID: MT4-21-0608A.093.MS, Parent Sample ID: S24926.02

Run in Batch: MT4-21-0608A, Run Date: 06/08/2021 13:58, Prep Date: 06/08/2021, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Arsenic		105	75	125
Barium		97	75	125
Cadmium		104	75	125
Chromium		102	75	125
Lead		100	75	125
Selenium		105	75	125
Silver		93	75	125

Matrix Spike (MS)

Lab Sample ID: MT4-21-0608A.116.MS, Parent Sample ID: S24745.01

Run in Batch: MT4-21-0608A, Run Date: 06/08/2021 14:36, Prep Date: 06/08/2021, Matrix: Liquid, Dilution: 25

Analyte	Flags	% Rec	LCL	UCL
Arsenic		108	75	125
Barium		97	75	125
Cadmium		103	75	125
Chromium		106	75	125
Lead		98	75	125
Selenium		111	75	125
Silver		94	75	125

Metals, Prep Batch ID: MTD-060821-4 (continued)

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-21-0608A.094.MSD, Parent Sample ID: MT4-21-0608A.093.MS

Run in Batch: MT4-21-0608A, Run Date: 06/08/2021 14:00, Prep Date: 06/08/2021, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Arsenic		100	75	125	5	20
Barium		96	75	125	1	20
Cadmium		100	75	125	4	20
Chromium		97	75	125	5	20
Lead		96	75	125	4	20
Selenium		106	75	125	2	20
Silver		91	75	125	2	20

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-21-0608A.117.MSD, Parent Sample ID: MT4-21-0608A.116.MS

Run in Batch: MT4-21-0608A, Run Date: 06/08/2021 14:38, Prep Date: 06/08/2021, Matrix: Liquid, Dilution: 25

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Arsenic		106	75	125	1	20
Barium		95	75	125	1	20
Cadmium		102	75	125	2	20
Chromium		103	75	125	2	20
Lead		99	75	125	1	20
Selenium		109	75	125	2	20
Silver		94	75	125	0	20

Organics - PCBs/Pesticides, Prep Batch ID: PA210603S3

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: a21060313.sblk-s.03

Run in Batch: A210603, Run Date: 06/03/2021 17:17, Prep Date: 06/03/2021, Matrix: SO, Dilution: 1

Analyte	Flags	Conc	RDL	Units
PCB-1016		ND	5.00	ug/kg
PCB-1242		ND	5.00	ug/kg
PCB-1221		ND	5.00	ug/kg
PCB-1232		ND	5.00	ug/kg
PCB-1248		ND	5.00	ug/kg
PCB-1254		ND	5.00	ug/kg
PCB-1260		ND	5.00	ug/kg

Laboratory Control Sample (LCS)

Lab Sample ID: a21060314.slcs-s.03

Run in Batch: A210603, Run Date: 06/03/2021 17:28, Prep Date: 06/03/2021, Matrix: SO, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PCB-1016/1260		71.68	50.0	125.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: a21060315.slcs-s.03d, Parent Sample ID: a21060314.slcs-s.03

Run in Batch: A210603, Run Date: 06/03/2021 17:39, Prep Date: 06/03/2021, Matrix: SO, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
PCB-1016/1260	*	92.82	50.0	125.0	25.7	20.0

Organics - Semi-Volatiles, Prep Batch ID: TF210607W1

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: Z210607.BLKW07A

Run in Batch: Z210607, Run Date: 06/07/2021 15:09, Prep Date: 06/07/2021, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
2-Methylphenol (o-Cresol)		ND	0.0010	mg/l
3-, 4-Methylphenol (p,m-Cresol)		ND	0.0010	mg/l
Pentachlorophenol		ND	0.0010	mg/l
2,4,5-Trichlorophenol		ND	0.0010	mg/l
2,4,6-Trichlorophenol		ND	0.0010	mg/l
2,4-Dinitrotoluene		ND	0.0010	mg/l
Hexachlorobenzene		ND	0.0010	mg/l
Hexachlorobutadiene		ND	0.0010	mg/l
Hexachloroethane		ND	0.0010	mg/l
Nitrobenzene		ND	0.0010	mg/l
Pyridine		ND	0.0010	mg/l

Laboratory Control Sample (LCS)

Lab Sample ID: Z210607.LCSW07A

Run in Batch: Z210607, Run Date: 06/07/2021 17:45, Prep Date: 06/07/2021, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
2-Methylphenol (o-Cresol)		61.1	37.3	120.0
3-, 4-Methylphenol (p,m-Cresol)		66.3	40.1	124.4
Pentachlorophenol		50.4	10.0	120.0
2,4,5-Trichlorophenol		57.1	26.2	128.4
2,4,6-Trichlorophenol		55.7	28.3	130.8
2,4-Dinitrotoluene		67.6	36.1	133.0
Hexachlorobenzene		58.5	37.0	121.6
Hexachlorobutadiene		43.0	32.2	120.0
Hexachloroethane		41.7	35.2	120.0
Nitrobenzene		53.6	36.6	120.0
Pyridine		31.1	10.0	120.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: Z210607.LCSDW07A, Parent Sample ID: Z210607.LCSW07A

Run in Batch: Z210607, Run Date: 06/07/2021 18:09, Prep Date: 06/07/2021, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
2-Methylphenol (o-Cresol)		63.4	37.3	120.0	3.7	30.0
3-, 4-Methylphenol (p,m-Cresol)		69.5	40.1	124.4	4.6	30.0
Pentachlorophenol		52.8	10.0	120.0	4.7	30.0
2,4,5-Trichlorophenol		59.0	26.2	128.4	3.4	30.0
2,4,6-Trichlorophenol		59.6	28.3	130.8	6.8	30.0
2,4-Dinitrotoluene		71.1	36.1	133.0	5.0	30.0
Hexachlorobenzene		61.1	37.0	121.6	4.2	30.0
Hexachlorobutadiene		45.3	32.2	120.0	5.3	30.0
Hexachloroethane		43.6	35.2	120.0	4.4	30.0
Nitrobenzene		55.8	36.6	120.0	4.2	30.0
Pyridine		31.7	10.0	120.0	1.8	30.0

Organics - Volatiles, Prep Batch ID: VF210607S1

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Blank (BLK)

Lab Sample ID: 210607A5.BLKS07A

Run in Batch: 210607A5, Run Date: 06/07/2021 14:36, Prep Date: 06/07/2021, Matrix: SO, Dilution: 50

Analyte	Flags	Conc	RDL	Units
Benzene		ND	50.0	ug/kg
Carbon tetrachloride		ND	50.0	ug/kg
Chlorobenzene		ND	50.0	ug/kg
Chloroform		ND	50.0	ug/kg
1,4-Dichlorobenzene		ND	50.0	ug/kg
1,2-Dichloroethane		ND	50.0	ug/kg
1,1-Dichloroethene		ND	50.0	ug/kg
2-Butanone (MEK)		ND	500.0	ug/kg
Tetrachloroethene		ND	50.0	ug/kg
Trichloroethene		ND	50.0	ug/kg
Vinyl chloride		ND	50.0	ug/kg

Laboratory Control Sample (LCS)

Lab Sample ID: 210607A5.LCSS07A

Run in Batch: 210607A5, Run Date: 06/07/2021 12:42, Prep Date: 06/07/2021, Matrix: SO, Dilution: 50

Analyte	Flags	% Rec	LCL	UCL
Benzene		105.1	74.6	128.9
Carbon tetrachloride		112.4	70.1	132.7
Chlorobenzene		104.2	74.2	128.1
Chloroform		103.3	74.6	123.2
1,4-Dichlorobenzene		104.3	33.1	125.8
1,2-Dichloroethane		102.0	73.2	125.4
1,1-Dichloroethene		104.4	59.2	137.5
2-Butanone (MEK)		81.0	38.7	136.9
Tetrachloroethene		110.1	73.0	124.7
Trichloroethene		108.8	74.1	127.6
Vinyl chloride		102.4	45.3	138.7

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 210607A5.LCSDS07A, Parent Sample ID: 210607A5.LCSS07A

Run in Batch: 210607A5, Run Date: 06/07/2021 13:05, Prep Date: 06/07/2021, Matrix: SO, Dilution: 50

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Benzene		111.9	74.6	128.9	6.2	30.0
Carbon tetrachloride		118.4	70.1	132.7	5.2	30.0
Chlorobenzene		110.9	74.2	128.1	6.2	30.0
Chloroform		107.6	74.6	123.2	4.1	30.0
1,4-Dichlorobenzene		109.7	33.1	125.8	5.0	30.0
1,2-Dichloroethane		109.1	73.2	125.4	6.8	30.0
1,1-Dichloroethene		109.0	59.2	137.5	4.3	30.0
2-Butanone (MEK)		86.1	38.7	136.9	6.0	30.0
Tetrachloroethene		116.3	73.0	124.7	5.4	30.0
Trichloroethene		114.8	74.1	127.6	5.4	30.0
Vinyl chloride		111.8	45.3	138.7	8.8	30.0

Organics - Volatiles, Prep Batch ID: VF210607S1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Matrix Spike (MS)

Lab Sample ID: 210607A5.2471603M, Parent Sample ID: S24716.02

Run in Batch: 210607A5, Run Date: 06/07/2021 13:28, Prep Date: 06/07/2021, Matrix: SO, Dilution: 59.1

Analyte	Flags	% Rec	LCL	UCL
Benzene		108.7	74.6	128.9
Carbon tetrachloride		114.0	70.1	132.7
Chlorobenzene		107.8	74.2	128.1
Chloroform		103.3	74.6	123.2
1,4-Dichlorobenzene		106.9	33.1	125.8
1,2-Dichloroethane		106.3	73.2	125.4
1,1-Dichloroethene		103.7	59.2	137.5
2-Butanone (MEK)		76.2	38.7	136.9
Tetrachloroethene		113.2	73.0	124.7
Trichloroethene		111.7	74.1	127.6
Vinyl chloride		108.6	45.3	138.7

Matrix Spike Duplicate (MSD)

Lab Sample ID: 210607A5.2471604N, Parent Sample ID: 210607A5.2471603M

Run in Batch: 210607A5, Run Date: 06/07/2021 13:51, Prep Date: 06/07/2021, Matrix: SO, Dilution: 61.5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Benzene		107.4	74.6	128.9	1.2	30.0
Carbon tetrachloride		114.2	70.1	132.7	0.2	30.0
Chlorobenzene		107.3	74.2	128.1	0.5	30.0
Chloroform		104.6	74.6	123.2	1.2	30.0
1,4-Dichlorobenzene		105.8	33.1	125.8	1.0	30.0
1,2-Dichloroethane		105.4	73.2	125.4	0.9	30.0
1,1-Dichloroethene		105.5	59.2	137.5	1.8	30.0
2-Butanone (MEK)		81.2	38.7	136.9	5.9	30.0
Tetrachloroethene		112.6	73.0	124.7	0.5	30.0
Trichloroethene		112.2	74.1	127.6	0.4	30.0
Vinyl chloride		112.0	45.3	138.7	3.1	30.0

Merit Laboratories Login Checklist

Lab Set ID: S24678
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30075935.01934
Submitted: 05/26/2021 16:00 Login User: SRS

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.1
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[ ] Yes	[ ] No	[X] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

146062

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Donald Richmond, Deb Newcom, Erin Regan, Micki Mackl
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 810 623 6438 FAX NO.: P.O. NO.:
E-MAIL ADDRESS: Deborah.newcom@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30075935.01934
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Donald Richmond/[signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	RCI	TCLP RCRA metals	TCLP VOCs	TCLP SVOCs	Special Instructions
Added to 24478	5/20/21	1250	Bob 2 Catwalk_052021	SL	1	X							X	X	X	X	X	Additional Volume
24678.01	5/26/21	1030	Bob 2 Sediment_052621	SD	1	X							X	X	X	X	X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☑ Sampler	DATE	TIME
[signature] Richmond/Arcadis		5/26/21	1515
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
[signature]		5/26/21	1515
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
[signature]		5/26/21	2001
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
[signature]		5/26/21	1000

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 4.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S35141.01(01)
Generated on 04/25/2022

Report to

Attention: Joey Barker
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O:248-994-2270 C:248-790-5218 FAX:
Email: Joey.Barker@arcadis.com

Addtional Contacts: Micki Maki, Megan Humphrey, Erin Kozak

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S35141.01-S35141.17
Project: RACER Buick City
Collected Date(s): 04/20/2022
Submitted Date/Time: 04/20/2022 16:15
Sampled by: Madison Olender
P.O. #: 30075935

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein, acrylonitrile, and 2-chlorovinylethyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2015
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (17 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S35141.01	RFI-10-22A(0-2)_042022	Soil	04/20/22 10:05
S35141.02	RFI-10-22A(2-4)_042022	Soil	04/20/22 10:10
S35141.03	RFI-10-22A(4-6)_042022	Soil	04/20/22 10:15
S35141.04	RFI-10-22A(6-8)_042022	Soil	04/20/22 10:20
S35141.05	SB-10-93(0-2)_042022	Soil	04/20/22 10:35
S35141.06	SB-10-93(2-4)_042022	Soil	04/20/22 10:40
S35141.07	SB-10-93(4-6)_042022	Soil	04/20/22 10:45
S35141.08	SB-10-93(6-8)_042022	Soil	04/20/22 10:50
S35141.09	SB-10-92(0-2)_042022	Soil	04/20/22 11:30
S35141.10	SB-10-92(2-4)_042022	Soil	04/20/22 11:35
S35141.11	SB-10-92(4-6)_042022	Soil	04/20/22 11:40
S35141.12	SB-10-92(6-8)_042022	Soil	04/20/22 11:45
S35141.13	SB-10-89R(4-6)_042022	Soil	04/20/22 11:10
S35141.14	SB-10-89R(6-8)_042022	Soil	04/20/22 11:15
S35141.15	SB-03-20(6-7)_042022	Soil	04/20/22 13:40
S35141.16	55-5R(0-2)_042022	Soil	04/20/22 14:05
S35141.17	55-5R(2-4)_042022	Soil	04/20/22 14:10

Analytical Laboratory Report

Lab Sample ID: S35141.01
Sample Tag: RFI-10-22A(0-2)_042022
Collected Date/Time: 04/20/2022 10:05
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:41, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	293	0.50		mg/kg	254	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.02
Sample Tag: RFI-10-22A(2-4)_042022
Collected Date/Time: 04/20/2022 10:10
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	96	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:42, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	133	0.50		mg/kg	249	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.03
Sample Tag: RFI-10-22A(4-6)_042022
Collected Date/Time: 04/20/2022 10:15
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	81	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:43, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	138	0.50		mg/kg	295	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.04
Sample Tag: RFI-10-22A(6-8)_042022
Collected Date/Time: 04/20/2022 10:20
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Other / Misc.

Method: , Run Date: 04/25/22 15:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Hold until notified*	Completed				1			

Analytical Laboratory Report

Lab Sample ID: S35141.05
Sample Tag: SB-10-93(0-2)_042022
Collected Date/Time: 04/20/2022 10:35
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	89	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:44, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	422	0.50		mg/kg	278	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.06
Sample Tag: SB-10-93(2-4)_042022
Collected Date/Time: 04/20/2022 10:40
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:46, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	313	0.50		mg/kg	254	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.07
Sample Tag: SB-10-93(4-6)_042022
Collected Date/Time: 04/20/2022 10:45
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	84	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:47, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	135	0.50		mg/kg	283	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.08
Sample Tag: SB-10-93(6-8)_042022
Collected Date/Time: 04/20/2022 10:50
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Other / Misc.

Method: , Run Date: 04/25/22 15:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Hold until notified*	Completed				1			

Analytical Laboratory Report

Lab Sample ID: S35141.09
Sample Tag: SB-10-92(0-2)_042022
Collected Date/Time: 04/20/2022 11:30
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:48, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	826	0.50		mg/kg	263	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.10
Sample Tag: SB-10-92(2-4)_042022
Collected Date/Time: 04/20/2022 11:35
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:49, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	399	0.50		mg/kg	251	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.11
Sample Tag: SB-10-92(4-6)_042022
Collected Date/Time: 04/20/2022 11:40
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	83	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:50, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	111	0.50		mg/kg	300	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.12
Sample Tag: SB-10-92(6-8)_042022
Collected Date/Time: 04/20/2022 11:45
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Other / Misc.

Method: , Run Date: 04/25/22 15:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Hold until notified*	Completed				1			

Analytical Laboratory Report

Lab Sample ID: S35141.13
Sample Tag: SB-10-89R(4-6)_042022
Collected Date/Time: 04/20/2022 11:10
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:52, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	793	0.50		mg/kg	264	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.14
Sample Tag: SB-10-89R(6-8)_042022
Collected Date/Time: 04/20/2022 11:15
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Other / Misc.

Method: , Run Date: 04/25/22 15:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Hold until notified*	Completed				1			

Analytical Laboratory Report

Lab Sample ID: S35141.15
Sample Tag: SB-03-20(6-7)_042022
Collected Date/Time: 04/20/2022 13:40
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/21/22 14:00	JWR	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/22/22 12:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Analytical Laboratory Report

Lab Sample ID: S35141.16
Sample Tag: 55-5R(0-2)_042022
Collected Date/Time: 04/20/2022 14:05
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/21/22 14:00	JWR	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/22/22 13:01, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Analytical Laboratory Report

Lab Sample ID: S35141.17
Sample Tag: 55-5R(2-4)_042022
Collected Date/Time: 04/20/2022 14:10
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/21/22 14:00	JWR	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/22/22 13:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Merit Laboratories Login Checklist

Lab Set ID:S35141
Client:ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: RACER Buick City
Submitted:04/20/2022 16:15 Login User: PFD

Attention: Joey Barker
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O:248-994-2270 FAX:
Email: Joey.Barker@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.6
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____ 145726

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Aradis - Joey Barker, Micki Maki, Ekozak Megan Humphrey
COMPANY: Aradis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 FAX NO.:
P.O. NO.: 30121887.01908
E-MAIL ADDRESS: joey.barker@aradis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER-Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madisan Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☐ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Manganese	Special Instructions
35141.01	4/20/22	1005	RFI-10-22A(0-2)_042022	S	1	X							X	
.02		1010	RFI-10-22A(2-4)_042022	S	1									
.03		1015	RFI-10-22A(4-6)_042022											
.04		1020	RFI-10-22A(6-8)_042022											hold on analyzing ~~waste~~ pending shallow sample results
.05		1035	SB-10-93(0-2)_042022											
.06		1040	SB-10-93(2-4)_042022											
.07		1045	SB-10-93(4-6)_042022											
.08		1050	SB-10-93(6-8)_042022											hold on analyzing pending shallow sample result
.09		~~1130~~ 1130	SB-10-92(0-2)_042022											
.10		1135	SB-10-92(2-4)_042022											
.11		1140	SB-10-92(4-6)_042022											
.12		1145	SB-10-92(6-8)_042022											hold on analyzing pending shallow sample results

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE 4/20/22	TIME 1500
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 4/20/22	TIME 15:20
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 4/20/22	TIME 16:15
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 4/20/22	TIME 1615

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____ 145729

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Joey Barker, M Maki, M Humphrey, E Kozak
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 FAX NO.:
P.O. NO.: 30121887.01908
E-MAIL ADDRESS: joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER BUICK CITY
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Vendorfield

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Manganese	PCBs	Special Instructions
35141.13	4/20/22	1110	SB-10-89R(4-6)_042022	S	1	X							X	X	3 day TAT
.14		1115	SB-10-89R(6-8)_042022										X		had to analyze pending shallow sample results
.15		1340	SB-03-20(6-7)_042022											X	
.16		1405	SS-5R(0-2)_042022											X	
.17		1410	SS-5R(2-4)_042022											X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
	Arcadis ☒ Sampler	4/20/22	1500
RECEIVED BY: SIGNATURE/ORGANIZATION		4/20/22	1500
RELINQUISHED BY: SIGNATURE/ORGANIZATION		4/20/22	1615
RECEIVED BY: SIGNATURE/ORGANIZATION		4/20/22	1615

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S35141.01(01)
Generated on 04/25/2022

Report to

Attention: Joey Barker
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O:248-994-2270 C:248-790-5218 FAX:
Email: Joey.Barker@arcadis.com

Addtional Contacts: Micki Maki, Megan Humphrey, Erin Kozak

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S35141.01-S35141.17
Project: RACER Buick City
Collected Date(s): 04/20/2022
Submitted Date/Time: 04/20/2022 16:15
Sampled by: Madison Olender
P.O. #: 30075935

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein, acrylonitrile, and 2-chlorovinylethyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2015
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (17 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S35141.01	RFI-10-22A(0-2)_042022	Soil	04/20/22 10:05
S35141.02	RFI-10-22A(2-4)_042022	Soil	04/20/22 10:10
S35141.03	RFI-10-22A(4-6)_042022	Soil	04/20/22 10:15
S35141.04	RFI-10-22A(6-8)_042022	Soil	04/20/22 10:20
S35141.05	SB-10-93(0-2)_042022	Soil	04/20/22 10:35
S35141.06	SB-10-93(2-4)_042022	Soil	04/20/22 10:40
S35141.07	SB-10-93(4-6)_042022	Soil	04/20/22 10:45
S35141.08	SB-10-93(6-8)_042022	Soil	04/20/22 10:50
S35141.09	SB-10-92(0-2)_042022	Soil	04/20/22 11:30
S35141.10	SB-10-92(2-4)_042022	Soil	04/20/22 11:35
S35141.11	SB-10-92(4-6)_042022	Soil	04/20/22 11:40
S35141.12	SB-10-92(6-8)_042022	Soil	04/20/22 11:45
S35141.13	SB-10-89R(4-6)_042022	Soil	04/20/22 11:10
S35141.14	SB-10-89R(6-8)_042022	Soil	04/20/22 11:15
S35141.15	SB-03-20(6-7)_042022	Soil	04/20/22 13:40
S35141.16	55-5R(0-2)_042022	Soil	04/20/22 14:05
S35141.17	55-5R(2-4)_042022	Soil	04/20/22 14:10

Analytical Laboratory Report

Lab Sample ID: S35141.01
Sample Tag: RFI-10-22A(0-2)_042022
Collected Date/Time: 04/20/2022 10:05
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:41, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	293	0.50		mg/kg	254	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.02
Sample Tag: RFI-10-22A(2-4)_042022
Collected Date/Time: 04/20/2022 10:10
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	96	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:42, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	133	0.50		mg/kg	249	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.03
Sample Tag: RFI-10-22A(4-6)_042022
Collected Date/Time: 04/20/2022 10:15
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	81	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:43, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	138	0.50		mg/kg	295	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.04
Sample Tag: RFI-10-22A(6-8)_042022
Collected Date/Time: 04/20/2022 10:20
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Other / Misc.

Method: , Run Date: 04/25/22 15:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Hold until notified*	Completed				1			

Analytical Laboratory Report

Lab Sample ID: S35141.05
Sample Tag: SB-10-93(0-2)_042022
Collected Date/Time: 04/20/2022 10:35
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	89	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:44, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	422	0.50		mg/kg	278	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.06
Sample Tag: SB-10-93(2-4)_042022
Collected Date/Time: 04/20/2022 10:40
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:46, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	313	0.50		mg/kg	254	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.07
Sample Tag: SB-10-93(4-6)_042022
Collected Date/Time: 04/20/2022 10:45
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	84	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:47, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	135	0.50		mg/kg	283	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.08
Sample Tag: SB-10-93(6-8)_042022
Collected Date/Time: 04/20/2022 10:50
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Other / Misc.

Method: , Run Date: 04/25/22 15:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Hold until notified*	Completed				1			

Analytical Laboratory Report

Lab Sample ID: S35141.09
Sample Tag: SB-10-92(0-2)_042022
Collected Date/Time: 04/20/2022 11:30
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:48, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	826	0.50		mg/kg	263	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.10
Sample Tag: SB-10-92(2-4)_042022
Collected Date/Time: 04/20/2022 11:35
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:49, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	399	0.50		mg/kg	251	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.11
Sample Tag: SB-10-92(4-6)_042022
Collected Date/Time: 04/20/2022 11:40
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	83	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:50, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	111	0.50		mg/kg	300	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.12
Sample Tag: SB-10-92(6-8)_042022
Collected Date/Time: 04/20/2022 11:45
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Other / Misc.

Method: , Run Date: 04/25/22 15:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Hold until notified*	Completed				1			

Analytical Laboratory Report

Lab Sample ID: S35141.13
Sample Tag: SB-10-89R(4-6)_042022
Collected Date/Time: 04/20/2022 11:10
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:52, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	793	0.50		mg/kg	264	7439-96-5		

Analytical Laboratory Report

Lab Sample ID: S35141.14
Sample Tag: SB-10-89R(6-8)_042022
Collected Date/Time: 04/20/2022 11:15
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Other / Misc.

Method: , Run Date: 04/25/22 15:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Hold until notified*	Completed				1			

Analytical Laboratory Report

Lab Sample ID: S35141.15
Sample Tag: SB-03-20(6-7)_042022
Collected Date/Time: 04/20/2022 13:40
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/21/22 14:00	JWR	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/22/22 12:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Analytical Laboratory Report

Lab Sample ID: S35141.16
Sample Tag: 55-5R(0-2)_042022
Collected Date/Time: 04/20/2022 14:05
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/21/22 14:00	JWR	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/22/22 13:01, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Analytical Laboratory Report

Lab Sample ID: S35141.17
Sample Tag: 55-5R(2-4)_042022
Collected Date/Time: 04/20/2022 14:10
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/21/22 14:00	JWR	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/22/22 13:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Merit Laboratories Login Checklist

Lab Set ID:S35141
Client:ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: RACER Buick City
Submitted:04/20/2022 16:15 Login User: PFD

Attention: Joey Barker
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O:248-994-2270 FAX:
Email: Joey.Barker@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.6
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____ 145726

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Aradis - Joey Barker, Micki Maki, Ekozak Megan Humphrey
COMPANY: Aradis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 FAX NO.:
P.O. NO.: 30121887.01908
E-MAIL ADDRESS: joey.barker@aradis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER-Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madisan Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☐ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Manganese	Special Instructions
35141.01	4/20/22	1005	RFI-10-22A(0-2)_042022	S	1	X							X	
.02		1010	RFI-10-22A(2-4)_042022	S	1									
.03		1015	RFI-10-22A(4-6)_042022											
.04		1020	RFI-10-22A(6-8)_042022											hold on analyzing ~~waste~~ pending shallow sample results
.05		1035	SB-10-93(0-2)_042022											
.06		1040	SB-10-93(2-4)_042022											
.07		1045	SB-10-93(4-6)_042022											
.08		1050	SB-10-93(6-8)_042022											hold on analyzing pending shallow sample result
.09		~~1130~~ 1130	SB-10-92(0-2)_042022											
.10		1135	SB-10-92(2-4)_042022											
.11		1140	SB-10-92(4-6)_042022											
.12		1145	SB-10-92(6-8)_042022											hold on analyzing pending shallow sample results

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE 4/20/22	TIME 1500
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 4/20/22	TIME 15:20
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 4/20/22	TIME 16:15
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 4/20/22	TIME 1615

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____ 145729

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Joey Barker, M Maki, M Humphrey, E Kozak
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 FAX NO.:
P.O. NO.: 30121887.01908
E-MAIL ADDRESS: joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER BUICK CITY
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Vendorfield

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Manganese	PCBs	Special Instructions
35141.13	4/20/22	1110	SB-10-89R(4-6)_042022	S	1	X							X	X	3 day TAT
.14		1115	SB-10-89R(6-8)_042022										X		had to analyze pending shallow sample results
.15		1340	SB-03-20(6-7)_042022											X	
.16		1405	SS-5R(0-2)_042022											X	
.17		1410	SS-5R(2-4)_042022											X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
	Arcadis ☒ Sampler	4/20/22	1500
RECEIVED BY: SIGNATURE/ORGANIZATION		4/20/22	1500
RELINQUISHED BY: SIGNATURE/ORGANIZATION		4/20/22	1615
RECEIVED BY: SIGNATURE/ORGANIZATION		4/20/22	1615

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Revised Report

Report ID: S35141.01(02)
Generated on 04/27/2022
Replaces report S35141.01(01) generated on 04/25/2022

Report to

Attention: Joey Barker
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O:248-994-2270 C:248-790-5218 FAX:
Email: Joey.Barker@arcadis.com

Addtional Contacts: Micki Maki, Megan Humphrey, Erin Kozak

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S35141.01-S35141.17
Project: RACER Buick City
Collected Date(s): 04/20/2022
Submitted Date/Time: 04/20/2022 16:15
Sampled by: Madison Olender
P.O. #: 30075935

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein, acrylonitrile, and 2-chlorovinylethyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

Sample .01-.04 tags updated per client request

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2015
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (17 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S35141.01	RFI-10-22R(0-2)_042022	Soil	04/20/22 10:05
S35141.02	RFI-10-22R(2-4)_042022	Soil	04/20/22 10:10
S35141.03	RFI-10-22R(4-6)_042022	Soil	04/20/22 10:15
S35141.04	RFI-10-22R(6-8)_042022	Soil	04/20/22 10:20
S35141.05	SB-10-93(0-2)_042022	Soil	04/20/22 10:35
S35141.06	SB-10-93(2-4)_042022	Soil	04/20/22 10:40
S35141.07	SB-10-93(4-6)_042022	Soil	04/20/22 10:45
S35141.08	SB-10-93(6-8)_042022	Soil	04/20/22 10:50
S35141.09	SB-10-92(0-2)_042022	Soil	04/20/22 11:30
S35141.10	SB-10-92(2-4)_042022	Soil	04/20/22 11:35
S35141.11	SB-10-92(4-6)_042022	Soil	04/20/22 11:40
S35141.12	SB-10-92(6-8)_042022	Soil	04/20/22 11:45
S35141.13	SB-10-89R(4-6)_042022	Soil	04/20/22 11:10
S35141.14	SB-10-89R(6-8)_042022	Soil	04/20/22 11:15
S35141.15	SB-03-20(6-7)_042022	Soil	04/20/22 13:40
S35141.16	55-5R(0-2)_042022	Soil	04/20/22 14:05
S35141.17	55-5R(2-4)_042022	Soil	04/20/22 14:10

Attachment B

(File 2 of 2)

Lab Sample ID: S35141.01
Sample Tag: RFI-10-22R(0-2)_042022
Collected Date/Time: 04/20/2022 10:05
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:41, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	293	0.50		mg/kg	254	7439-96-5		

Lab Sample ID: S35141.02
Sample Tag: RFI-10-22R(2-4)_042022
Collected Date/Time: 04/20/2022 10:10
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	96	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:42, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	133	0.50		mg/kg	249	7439-96-5		

Lab Sample ID: S35141.03
Sample Tag: RFI-10-22R(4-6)_042022
Collected Date/Time: 04/20/2022 10:15
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	81	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:43, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	138	0.50		mg/kg	295	7439-96-5		

Lab Sample ID: S35141.04
Sample Tag: RFI-10-22R(6-8)_042022
Collected Date/Time: 04/20/2022 10:20
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Other / Misc.

Method: , Run Date: 04/25/22 15:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Hold until notified*	Completed				1			

Lab Sample ID: S35141.05
Sample Tag: SB-10-93(0-2)_042022
Collected Date/Time: 04/20/2022 10:35
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	89	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:44, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	422	0.50		mg/kg	278	7439-96-5		

Lab Sample ID: S35141.06
Sample Tag: SB-10-93(2-4)_042022
Collected Date/Time: 04/20/2022 10:40
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:46, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	313	0.50		mg/kg	254	7439-96-5		

Lab Sample ID: S35141.07
Sample Tag: SB-10-93(4-6)_042022
Collected Date/Time: 04/20/2022 10:45
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	84	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:47, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	135	0.50		mg/kg	283	7439-96-5		

Lab Sample ID: S35141.08
Sample Tag: SB-10-93(6-8)_042022
Collected Date/Time: 04/20/2022 10:50
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Other / Misc.

Method: , Run Date: 04/25/22 15:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Hold until notified*	Completed				1			

Lab Sample ID: S35141.09
Sample Tag: SB-10-92(0-2)_042022
Collected Date/Time: 04/20/2022 11:30
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:48, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	826	0.50		mg/kg	263	7439-96-5		

Lab Sample ID: S35141.10
Sample Tag: SB-10-92(2-4)_042022
Collected Date/Time: 04/20/2022 11:35
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:49, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	399	0.50		mg/kg	251	7439-96-5		

Lab Sample ID: S35141.11
Sample Tag: SB-10-92(4-6)_042022
Collected Date/Time: 04/20/2022 11:40
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	83	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:50, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	111	0.50		mg/kg	300	7439-96-5		

Lab Sample ID: S35141.12
Sample Tag: SB-10-92(6-8)_042022
Collected Date/Time: 04/20/2022 11:45
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Other / Misc.

Method: , Run Date: 04/25/22 15:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Hold until notified*	Completed				1			

Lab Sample ID: S35141.13
Sample Tag: SB-10-89R(4-6)_042022
Collected Date/Time: 04/20/2022 11:10
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:52, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	793	0.50		mg/kg	264	7439-96-5		

Lab Sample ID: S35141.14
Sample Tag: SB-10-89R(6-8)_042022
Collected Date/Time: 04/20/2022 11:15
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Other / Misc.

Method: , Run Date: 04/25/22 15:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Hold until notified*	Completed				1			

Lab Sample ID: S35141.15
Sample Tag: SB-03-20(6-7)_042022
Collected Date/Time: 04/20/2022 13:40
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/21/22 14:00	JWR	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/22/22 12:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S35141.16
Sample Tag: 55-5R(0-2)_042022
Collected Date/Time: 04/20/2022 14:05
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/21/22 14:00	JWR	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/22/22 13:01, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S35141.17
Sample Tag: 55-5R(2-4)_042022
Collected Date/Time: 04/20/2022 14:10
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/21/22 14:00	JWR	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/22/22 13:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Merit Laboratories Login Checklist

Lab Set ID:S35141
Client:ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: RACER Buick City
Submitted:04/20/2022 16:15 Login User: PFD

Attention: Joey Barker
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O:248-994-2270 FAX:
Email: Joey.Barker@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.6
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____ 145726

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Aradis - Joey Barker, Micki Maki, Ekozak Megan Humphrey
COMPANY: Aradis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 FAX NO.:
P.O. NO.: 30121887.01908
E-MAIL ADDRESS: joey.barker@aradis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER-Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madisan Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☐ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Manganese	Special Instructions
35141.01	4/20/22	1005	RFI-10-22A(0-2)_042022	S	1	X							X	
.02		1010	RFI-10-22A(2-4)_042022	S	1									
.03		1015	RFI-10-22A(4-6)_042022											
.04		1020	RFI-10-22A(6-8)_042022											hold on analyzing ~~waste~~ pending shallow sample results
.05		1035	SB-10-93(0-2)_042022											
.06		1040	SB-10-93(2-4)_042022											
.07		1045	SB-10-93(4-6)_042022											
.08		1050	SB-10-93(6-8)_042022											hold on analyzing pending shallow sample result
.09		~~1130~~ 1130	SB-10-92(0-2)_042022											
.10		1135	SB-10-92(2-4)_042022											
.11		1140	SB-10-92(4-6)_042022											
.12		1145	SB-10-92(6-8)_042022											hold on analyzing pending shallow sample results

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE 4/20/22	TIME 1500
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 4/20/22	TIME 15:20
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 4/20/22	TIME 16:15
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 4/20/22	TIME 1615

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____ 145729

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Joey Barker, M Maki, M Humphrey, E Kozak
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 FAX NO.:
P.O. NO.: 30121887.01908
E-MAIL ADDRESS: joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER BUICK CITY
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Vendorfield

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Manganese	PCBs	Special Instructions
35141.13	4/20/22	1110	SB-10-89R(4-6)_042022	S	1	X							X	X	3 day TAT
.14		1115	SB-10-89R(6-8)_042022										X		had to analyze pending shallow sample results
.15		1340	SB-03-20(6-7)_042022											X	
.16		1405	SS-5R(0-2)_042022											X	
.17		1410	SS-5R(2-4)_042022											X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
	Arcadis ☒ Sampler	4/20/22	1500
RECEIVED BY: SIGNATURE/ORGANIZATION		4/20/22	1500
RELINQUISHED BY: SIGNATURE/ORGANIZATION		4/20/22	1615
RECEIVED BY: SIGNATURE/ORGANIZATION		4/20/22	1615

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Revised Report

Report ID: S35141.01(02)
Generated on 04/27/2022
Replaces report S35141.01(01) generated on 04/25/2022

Report to

Attention: Joey Barker
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O:248-994-2270 C:248-790-5218 FAX:
Email: Joey.Barker@arcadis.com

Addtional Contacts: Micki Maki, Megan Humphrey, Erin Kozak

Report produced by

Merit Laboratories, Inc.
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East Lansing, MI 48823

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Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S35141.01-S35141.17
Project: RACER Buick City
Collected Date(s): 04/20/2022
Submitted Date/Time: 04/20/2022 16:15
Sampled by: Madison Olender
P.O. #: 30075935

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein, acrylonitrile, and 2-chlorovinylethyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

Sample .01-.04 tags updated per client request

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2015
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (17 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S35141.01	RFI-10-22R(0-2)_042022	Soil	04/20/22 10:05
S35141.02	RFI-10-22R(2-4)_042022	Soil	04/20/22 10:10
S35141.03	RFI-10-22R(4-6)_042022	Soil	04/20/22 10:15
S35141.04	RFI-10-22R(6-8)_042022	Soil	04/20/22 10:20
S35141.05	SB-10-93(0-2)_042022	Soil	04/20/22 10:35
S35141.06	SB-10-93(2-4)_042022	Soil	04/20/22 10:40
S35141.07	SB-10-93(4-6)_042022	Soil	04/20/22 10:45
S35141.08	SB-10-93(6-8)_042022	Soil	04/20/22 10:50
S35141.09	SB-10-92(0-2)_042022	Soil	04/20/22 11:30
S35141.10	SB-10-92(2-4)_042022	Soil	04/20/22 11:35
S35141.11	SB-10-92(4-6)_042022	Soil	04/20/22 11:40
S35141.12	SB-10-92(6-8)_042022	Soil	04/20/22 11:45
S35141.13	SB-10-89R(4-6)_042022	Soil	04/20/22 11:10
S35141.14	SB-10-89R(6-8)_042022	Soil	04/20/22 11:15
S35141.15	SB-03-20(6-7)_042022	Soil	04/20/22 13:40
S35141.16	55-5R(0-2)_042022	Soil	04/20/22 14:05
S35141.17	55-5R(2-4)_042022	Soil	04/20/22 14:10

Lab Sample ID: S35141.01
Sample Tag: RFI-10-22R(0-2)_042022
Collected Date/Time: 04/20/2022 10:05
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:41, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	293	0.50		mg/kg	254	7439-96-5		

Lab Sample ID: S35141.02
Sample Tag: RFI-10-22R(2-4)_042022
Collected Date/Time: 04/20/2022 10:10
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	96	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:42, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	133	0.50		mg/kg	249	7439-96-5		

Lab Sample ID: S35141.03
Sample Tag: RFI-10-22R(4-6)_042022
Collected Date/Time: 04/20/2022 10:15
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	81	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:43, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	138	0.50		mg/kg	295	7439-96-5		

Lab Sample ID: S35141.04
Sample Tag: RFI-10-22R(6-8)_042022
Collected Date/Time: 04/20/2022 10:20
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Other / Misc.

Method: , Run Date: 04/25/22 15:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Hold until notified*	Completed				1			

Lab Sample ID: S35141.05
Sample Tag: SB-10-93(0-2)_042022
Collected Date/Time: 04/20/2022 10:35
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	89	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:44, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	422	0.50		mg/kg	278	7439-96-5		

Lab Sample ID: S35141.06
Sample Tag: SB-10-93(2-4)_042022
Collected Date/Time: 04/20/2022 10:40
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:46, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	313	0.50		mg/kg	254	7439-96-5		

Lab Sample ID: S35141.07
Sample Tag: SB-10-93(4-6)_042022
Collected Date/Time: 04/20/2022 10:45
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	84	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:47, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	135	0.50		mg/kg	283	7439-96-5		

Lab Sample ID: S35141.08
Sample Tag: SB-10-93(6-8)_042022
Collected Date/Time: 04/20/2022 10:50
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Other / Misc.

Method: , Run Date: 04/25/22 15:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Hold until notified*	Completed				1			

Lab Sample ID: S35141.09
Sample Tag: SB-10-92(0-2)_042022
Collected Date/Time: 04/20/2022 11:30
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:48, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	826	0.50		mg/kg	263	7439-96-5		

Lab Sample ID: S35141.10
Sample Tag: SB-10-92(2-4)_042022
Collected Date/Time: 04/20/2022 11:35
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:49, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	399	0.50		mg/kg	251	7439-96-5		

Lab Sample ID: S35141.11
Sample Tag: SB-10-92(4-6)_042022
Collected Date/Time: 04/20/2022 11:40
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	83	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:50, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	111	0.50		mg/kg	300	7439-96-5		

Lab Sample ID: S35141.12
Sample Tag: SB-10-92(6-8)_042022
Collected Date/Time: 04/20/2022 11:45
Matrix: Soil
COC Reference: 145726

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Other / Misc.

Method: , Run Date: 04/25/22 15:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Hold until notified*	Completed				1			

Lab Sample ID: S35141.13
Sample Tag: SB-10-89R(4-6)_042022
Collected Date/Time: 04/20/2022 11:10
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/25/22 11:20	JRH	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Metals

Method: SW6020A, Run Date: 04/25/22 12:52, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Manganese	793	0.50		mg/kg	264	7439-96-5		

Lab Sample ID: S35141.14
Sample Tag: SB-10-89R(6-8)_042022
Collected Date/Time: 04/20/2022 11:15
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Other / Misc.

Method: , Run Date: 04/25/22 15:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Hold until notified*	Completed				1			

Lab Sample ID: S35141.15
Sample Tag: SB-03-20(6-7)_042022
Collected Date/Time: 04/20/2022 13:40
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/21/22 14:00	JWR	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/22/22 12:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S35141.16
Sample Tag: 55-5R(0-2)_042022
Collected Date/Time: 04/20/2022 14:05
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/21/22 14:00	JWR	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/22/22 13:01, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S35141.17
Sample Tag: 55-5R(2-4)_042022
Collected Date/Time: 04/20/2022 14:10
Matrix: Soil
COC Reference: 145729

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	04/21/22 14:00	JWR	

Inorganics

Method: SM2540B, Run Date: 04/21/22 15:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/22/22 13:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Merit Laboratories Login Checklist

Lab Set ID:S35141
Client:ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: RACER Buick City
Submitted:04/20/2022 16:15 Login User: PFD

Attention: Joey Barker
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O:248-994-2270 FAX:
Email: Joey.Barker@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.6
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____ 145726

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Aradis - Joey Barker, Micki Maki, Ekozak Megan Humphrey
COMPANY: Aradis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 FAX NO.:
P.O. NO.: 30121887.01908
E-MAIL ADDRESS: joey.barker@aradis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER-Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madisan Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☐ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Manganese	Special Instructions
35141.01	4/20/22	1005	RFI-10-22A(0-2)_042022	S	1	X							X	
.02		1010	RFI-10-22A(2-4)_042022	S	1									
.03		1015	RFI-10-22A(4-6)_042022											
.04		1020	RFI-10-22A(6-8)_042022											hold on analyzing ~~waste~~ pending shallow sample results
.05		1035	SB-10-93(0-2)_042022											
.06		1040	SB-10-93(2-4)_042022											
.07		1045	SB-10-93(4-6)_042022											
.08		1050	SB-10-93(6-8)_042022											hold on analyzing pending shallow sample result
.09		~~1130~~ 1130	SB-10-92(0-2)_042022											
.10		1135	SB-10-92(2-4)_042022											
.11		1140	SB-10-92(4-6)_042022											
.12		1145	SB-10-92(6-8)_042022											hold on analyzing pending shallow sample results

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE 4/20/22	TIME 1500
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 4/20/22	TIME 15:20
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 4/20/22	TIME 16:15
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 4/20/22	TIME 1615

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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Phone (517) 332-0167 Fax (517) 332-4034
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C.O.C. PAGE # _____ OF _____ 145729

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Joey Barker, M Maki, M Humphrey, E Kozak
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 FAX NO.:
P.O. NO.: 30121887.01908
E-MAIL ADDRESS: joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER BUICK CITY
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Vendorfield

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Manganese	PCBs	Special Instructions
35141.13	4/20/22	1110	SB-10-89R(4-6)_042022	S	1	X							X	X	3 day TAT
.14		1115	SB-10-89R(6-8)_042022										X		had to analyze pending shallow sample results
.15		1340	SB-03-20(6-7)_042022											X	
.16		1405	SS-5R(0-2)_042022											X	
.17		1410	SS-5R(2-4)_042022											X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
	Arcadis ☒ Sampler	4/20/22	1500
RECEIVED BY: SIGNATURE/ORGANIZATION		4/20/22	1500
RELINQUISHED BY: SIGNATURE/ORGANIZATION		4/20/22	1615
RECEIVED BY: SIGNATURE/ORGANIZATION		4/20/22	1615

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S35591.01(01)
Generated on 05/06/2022

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Addtional Contacts: Micki Maki, Megan Humphrey, Joey Barker

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S35591.01-S35591.09
Project: RACER Buick City
Collected Date(s): 05/03/2022
Submitted Date/Time: 05/04/2022 12:15
Sampled by: Madison Olender
P.O. #: 30121887.3100

Table of Contents

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Maya Murshak
Technical Director

Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein, acrylonitrile, and 2-chlorovinylethyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2015
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8270D	SW 846 Method 8270D Revision 4 February 2007

Analytical Laboratory Report

Sample Summary (9 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S35591.01	SB-94-08(1-2)_050322	Soil	05/03/22 09:00
S35591.02	SB-94-08(2-4)_050322	Soil	05/03/22 09:05
S35591.03	SB-94-08(4-6)_050322	Soil	05/03/22 09:10
S35591.04	SB-83/84-51(1-2)_050322	Soil	05/03/22 10:35
S35591.05	SB-83/84-51(2-4)_050322	Soil	05/03/22 10:40
S35591.06	SB-83/84-50(6-8)_050322	Soil	05/03/22 11:45
S35591.07	SB-FEP-34(0-2)_050322	Soil	05/03/22 14:10
S35591.08	SB-FEP-34(2-4)_050322	Soil	05/03/22 14:20
S35591.09	SB-FEP-34(4-6)_050322	Soil	05/03/22 14:30

Lab Sample ID: S35591.01
Sample Tag: SB-94-08(1-2)_050322
Collected Date/Time: 05/03/2022 09:00
Matrix: Soil
COC Reference: 145732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	05/05/22 10:30	JW	

Inorganics

Method: SM2540B, Run Date: 05/04/22 16:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 05/06/22 12:43, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S35591.02
Sample Tag: SB-94-08(2-4)_050322
Collected Date/Time: 05/03/2022 09:05
Matrix: Soil
COC Reference: 145732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	05/05/22 10:30	JW	

Inorganics

Method: SM2540B, Run Date: 05/04/22 16:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	89	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 05/06/22 13:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S35591.03
Sample Tag: SB-94-08(4-6)_050322
Collected Date/Time: 05/03/2022 09:10
Matrix: Soil
COC Reference: 145732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	05/05/22 10:30	JW	

Inorganics

Method: SM2540B, Run Date: 05/04/22 16:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	89	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 05/06/22 13:17, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Analytical Laboratory Report

Lab Sample ID: S35591.04
Sample Tag: SB-83/84-51(1-2)_050322
Collected Date/Time: 05/03/2022 10:35
Matrix: Soil
COC Reference: 145732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/05/22 09:25	JW	

Inorganics

Method: SM2540B, Run Date: 05/04/22 16:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 05/06/22 03:09, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8		

Analytical Laboratory Report

Lab Sample ID: S35591.05
Sample Tag: SB-83/84-51(2-4)_050322
Collected Date/Time: 05/03/2022 10:40
Matrix: Soil
COC Reference: 145732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/05/22 09:25	JW	

Inorganics

Method: SM2540B, Run Date: 05/04/22 16:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	83	1		%	1			

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 05/06/22 03:26, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8		

Analytical Laboratory Report

Lab Sample ID: S35591.06
Sample Tag: SB-83/84-50(6-8)_050322
Collected Date/Time: 05/03/2022 11:45
Matrix: Soil
COC Reference: 145732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	05/05/22 15:30	JRH	

Inorganics

Method: SM2540B, Run Date: 05/04/22 16:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Metals

Method: SW6020A, Run Date: 05/05/22 16:36, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	13.5	0.30		mg/kg	258	7439-92-1		

Analytical Laboratory Report

Lab Sample ID: S35591.07
Sample Tag: SB-FEP-34(0-2)_050322
Collected Date/Time: 05/03/2022 14:10
Matrix: Soil
COC Reference: 145732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	05/05/22 15:30	JRH	

Inorganics

Method: SM2540B, Run Date: 05/04/22 16:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Metals

Method: SW6020A, Run Date: 05/05/22 16:38, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	143	0.30		mg/kg	254	7439-92-1		

Analytical Laboratory Report

Lab Sample ID: S35591.08
Sample Tag: SB-FEP-34(2-4)_050322
Collected Date/Time: 05/03/2022 14:20
Matrix: Soil
COC Reference: 145732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	05/05/22 15:30	JRH	

Inorganics

Method: SM2540B, Run Date: 05/04/22 16:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Metals

Method: SW6020A, Run Date: 05/05/22 16:39, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	50.1	0.30		mg/kg	273	7439-92-1		

Analytical Laboratory Report

Lab Sample ID: S35591.09
Sample Tag: SB-FEP-34(4-6)_050322
Collected Date/Time: 05/03/2022 14:30
Matrix: Soil
COC Reference: 145732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	05/05/22 15:30	JRH	

Inorganics

Method: SM2540B, Run Date: 05/04/22 16:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Metals

Method: SW6020A, Run Date: 05/05/22 16:40, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	12.0	0.30		mg/kg	281	7439-92-1		

Merit Laboratories Login Checklist

Lab Set ID: S35591
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: RACER Buick City
Submitted: 05/04/2022 12:15 Login User: PFD

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.5
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____ 145732

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Arcadis - Joey Barker, Micki Maki, E Kozak
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 FAX NO.: P.O. NO.:
E-MAIL ADDRESS: joey.barker@arcadis.com QUOTE NO.: 30121687.03100

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER BUICK CITY
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☒ STANDARD ☐ OTHER see instructions

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	benzo(a)pyrene	lead	Special Instructions
355901	5/3/22	0900	SB-94-08(1-2)_050322	S	1	X							X			standard TAT
.02		0905	SB-94-08(2-4)_050322													
.03		0910	SB-94-08(4-6)_050322													
.04		1035	SB-83/84-51(1-2)_050322											X		
.05		1040	SB-83/84-51(2-4)_050322													
.06		1145	SB-83/84-50(6-8)_050322												X	
.07		1410	SB-FEP-34(0-2)_050322													3 day TAT
.08		1420	SB-FEP-34(2-4)_050322													
.09		1430	SB-FEP-34(4-6)_050322													

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Arcadis ☒ Sampler	DATE 5/4/22	TIME 1054
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 5/4/22	TIME 10:54
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 5/4/22	TIME 10:15
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 5/4/22	TIME 1215

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.5

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Revised Report

Report ID: S35591.01(02)
Generated on 06/01/2022
Replaces report S35591.01(01) generated on 05/06/2022

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Addtional Contacts: Micki Maki, Megan Humphrey, Joey Barker

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S35591.01-S35591.09
Project: RACER Buick City
Collected Date(s): 05/03/2022
Submitted Date/Time: 05/04/2022 12:15
Sampled by: Madison Olender
P.O. #: 30121887.3100

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

Sample .04-.06 tags updated per client request

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2015
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8270D	SW 846 Method 8270D Revision 4 February 2007

Sample Summary (9 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S35591.01	SB-94-08(1-2)_050322	Soil	05/03/22 09:00
S35591.02	SB-94-08(2-4)_050322	Soil	05/03/22 09:05
S35591.03	SB-94-08(4-6)_050322	Soil	05/03/22 09:10
S35591.04	SB-83/84-86(1-2)_050322	Soil	05/03/22 10:35
S35591.05	SB-83/84-86(2-4)_050322	Soil	05/03/22 10:40
S35591.06	SB-83/84-85(6-8)_050322	Soil	05/03/22 11:45
S35591.07	SB-FEP-34(0-2)_050322	Soil	05/03/22 14:10
S35591.08	SB-FEP-34(2-4)_050322	Soil	05/03/22 14:20
S35591.09	SB-FEP-34(4-6)_050322	Soil	05/03/22 14:30

Lab Sample ID: S35591.01
Sample Tag: SB-94-08(1-2)_050322
Collected Date/Time: 05/03/2022 09:00
Matrix: Soil
COC Reference: 145732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	05/05/22 10:30	JW	

Inorganics

Method: SM2540B, Run Date: 05/04/22 16:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 05/06/22 12:43, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S35591.02
Sample Tag: SB-94-08(2-4)_050322
Collected Date/Time: 05/03/2022 09:05
Matrix: Soil
COC Reference: 145732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	05/05/22 10:30	JW	

Inorganics

Method: SM2540B, Run Date: 05/04/22 16:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 05/06/22 13:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S35591.03
Sample Tag: SB-94-08(4-6)_050322
Collected Date/Time: 05/03/2022 09:10
Matrix: Soil
COC Reference: 145732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	05/05/22 10:30	JW	

Inorganics

Method: SM2540B, Run Date: 05/04/22 16:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 05/06/22 13:17, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S35591.04
Sample Tag: SB-83/84-86(1-2)_050322
Collected Date/Time: 05/03/2022 10:35
Matrix: Soil
COC Reference: 145732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/05/22 09:25	JW	

Inorganics

Method: SM2540B, Run Date: 05/04/22 16:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 05/06/22 03:09, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	

Lab Sample ID: S35591.05
Sample Tag: SB-83/84-86(2-4)_050322
Collected Date/Time: 05/03/2022 10:40
Matrix: Soil
COC Reference: 145732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/05/22 09:25	JW	

Inorganics

Method: SM2540B, Run Date: 05/04/22 16:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - Semi-Volatiles

Method: SW8270D, Run Date: 05/06/22 03:26, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	

Lab Sample ID: S35591.06
Sample Tag: SB-83/84-85(6-8)_050322
Collected Date/Time: 05/03/2022 11:45
Matrix: Soil
COC Reference: 145732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	05/05/22 15:30	JRH	

Inorganics

Method: SM2540B, Run Date: 05/04/22 16:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Metals

Method: SW6020A, Run Date: 05/05/22 16:36, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	13.5	0.30		mg/kg	258	7439-92-1	

Lab Sample ID: S35591.07
Sample Tag: SB-FEP-34(0-2)_050322
Collected Date/Time: 05/03/2022 14:10
Matrix: Soil
COC Reference: 145732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	05/05/22 15:30	JRH	

Inorganics

Method: SM2540B, Run Date: 05/04/22 16:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Metals

Method: SW6020A, Run Date: 05/05/22 16:38, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	143	0.30		mg/kg	254	7439-92-1	

Lab Sample ID: S35591.08
Sample Tag: SB-FEP-34(2-4)_050322
Collected Date/Time: 05/03/2022 14:20
Matrix: Soil
COC Reference: 145732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	05/05/22 15:30	JRH	

Inorganics

Method: SM2540B, Run Date: 05/04/22 16:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Metals

Method: SW6020A, Run Date: 05/05/22 16:39, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	50.1	0.30		mg/kg	273	7439-92-1	

Lab Sample ID: S35591.09
Sample Tag: SB-FEP-34(4-6)_050322
Collected Date/Time: 05/03/2022 14:30
Matrix: Soil
COC Reference: 145732

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	05/05/22 15:30	JRH	

Inorganics

Method: SM2540B, Run Date: 05/04/22 16:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Metals

Method: SW6020A, Run Date: 05/05/22 16:40, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	12.0	0.30		mg/kg	281	7439-92-1	

Merit Laboratories Login Checklist

Lab Set ID: S35591
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: RACER Buick City
Submitted: 05/04/2022 12:15 Login User: PFD

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.5
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____ 145732

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Arcadis - Joey Barker, Micki Maki, E Kozak
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 FAX NO.: P.O. NO.:
E-MAIL ADDRESS: joey.barker@arcadis.com QUOTE NO.: 30121687.03100

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER BUICK CITY
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☒ STANDARD ☐ OTHER see instructions

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	benzo(a)pyrene	lead	Special Instructions
355901	5/3/22	0900	SB-94-08(1-2)_050322	S	1	X							X			standard TAT
.02		0905	SB-94-08(2-4)_050322													
.03		0910	SB-94-08(4-6)_050322													
.04		1035	SB-83/84-51(1-2)_050322											X		
.05		1040	SB-83/84-51(2-4)_050322													
.06		1145	SB-83/84-50(6-8)_050322												X	
.07		1410	SB-FEP-34(0-2)_050322													3 day TAT
.08		1420	SB-FEP-34(2-4)_050322													
.09		1430	SB-FEP-34(4-6)_050322													

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Arcadis ☒ Sampler	DATE 5/4/22	TIME 1054
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 5/4/22	TIME 10:54
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 5/4/22	TIME 10:15
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 5/4/22	TIME 1215

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.5

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S41388.01(01)
Generated on 10/14/2022

Report to

Attention: Erin Kozak
Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
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Report Summary

Lab Sample ID(s): S41388.01-S41388.14
Project: RACER Buick City
Collected Date(s): 10/13/2022
Submitted Date/Time: 10/13/2022 16:00
Sampled by: Madison Olender
P.O. #: 30121887.01908

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2015
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (14 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S41388.01	SB-81-92(0.75-2)_101322	Soil	10/13/22 09:55
S41388.02	SB-81-92(4-6)_101322	Soil	10/13/22 10:00
S41388.03	SB-81-92(8-10)_101322	Soil	10/13/22 10:10
S41388.04	SB-81-92(10-12)_101322	Soil	10/13/22 10:15
S41388.05	SB-81-92(12-14)_101322	Soil	10/13/22 10:30
S41388.06	SB-81-89(0.2-2)_101322	Soil	10/13/22 11:40
S41388.07	SB-81-89(4-6)_101322	Soil	10/13/22 11:45
S41388.08	SB-81-89(8-10)_101322	Soil	10/13/22 11:50
S41388.09	SB-40-30(0-2)_101322	Soil	10/13/22 13:15
S41388.10	SB-40-30(4-6)_101322	Soil	10/13/22 13:18
S41388.11	SB-40-30(6-8)_101322	Soil	10/13/22 13:20
S41388.12	SB-40-31(0-2)_101322	Soil	10/13/22 14:18
S41388.13	SB-40-31(4-6)_101322	Soil	10/13/22 14:20
S41388.14	SB-40-31(6-8)_101322	Soil	10/13/22 14:22

Analytical Laboratory Report

Lab Sample ID: S41388.01
Sample Tag: SB-81-92(0.75-2)_101322
Collected Date/Time: 10/13/2022 09:55
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 11:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 13:22, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	9.11	0.30		mg/kg	246	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S41388.02
Sample Tag: SB-81-92(4-6)_101322
Collected Date/Time: 10/13/2022 10:00
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 11:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 13:24, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	155	0.30		mg/kg	273	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S41388.03
Sample Tag: SB-81-92(8-10)_101322
Collected Date/Time: 10/13/2022 10:10
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 11:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 13:25, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	71.2	0.30		mg/kg	260	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S41388.04
Sample Tag: SB-81-92(10-12)_101322
Collected Date/Time: 10/13/2022 10:15
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 11:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	43	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 13:27, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	75.8	0.30		mg/kg	548	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S41388.05
Sample Tag: SB-81-92(12-14)_101322
Collected Date/Time: 10/13/2022 10:30
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 12:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 13:54, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	3.06	0.30		mg/kg	280	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S41388.06
Sample Tag: SB-81-89(0.2-2)_101322
Collected Date/Time: 10/13/2022 11:40
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 12:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 13:55, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	38.5	0.30		mg/kg	257	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S41388.07
Sample Tag: SB-81-89(4-6)_101322
Collected Date/Time: 10/13/2022 11:45
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 12:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 13:57, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	8.86	0.30		mg/kg	253	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S41388.08
Sample Tag: SB-81-89(8-10)_101322
Collected Date/Time: 10/13/2022 11:50
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 12:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 13:58, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	42.1	0.30		mg/kg	279	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S41388.09
Sample Tag: SB-40-30(0-2)_101322
Collected Date/Time: 10/13/2022 13:15
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 12:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 14:00, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	49.7	0.30		mg/kg	292	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S41388.10
Sample Tag: SB-40-30(4-6)_101322
Collected Date/Time: 10/13/2022 13:18
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 12:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 14:01, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	10.9	0.30		mg/kg	271	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S41388.11
Sample Tag: SB-40-30(6-8)_101322
Collected Date/Time: 10/13/2022 13:20
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 12:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 14:03, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	2.72	0.30		mg/kg	265	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S41388.12
Sample Tag: SB-40-31(0-2)_101322
Collected Date/Time: 10/13/2022 14:18
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 12:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 14:05, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	67.0	0.30		mg/kg	259	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S41388.13
Sample Tag: SB-40-31(4-6)_101322
Collected Date/Time: 10/13/2022 14:20
Matrix: Soil
COC Reference: 156990

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/14/22 11:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/14/22 14:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

PCB List, Method: SW8082A, Run Date: 10/14/22 14:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1262*	Not detected	330		ug/kg	1	37324-23-5	
PCB-1268*	Not detected	330		ug/kg	1	11100-14-4	

Analytical Laboratory Report

Lab Sample ID: S41388.14
Sample Tag: SB-40-31(6-8)_101322
Collected Date/Time: 10/13/2022 14:22
Matrix: Soil
COC Reference: 156990

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/14/22 11:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/14/22 14:36, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

PCB List, Method: SW8082A, Run Date: 10/14/22 14:36, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1262*	Not detected	330		ug/kg	1	37324-23-5	
PCB-1268*	Not detected	330		ug/kg	1	11100-14-4	

Merit Laboratories Login Checklist

Lab Set ID: S41388
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: RACER Buick City
Submitted: 10/13/2022 16:00 Login User: PFD

Attention: Erin Kozak
Address: Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.3
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____ 152126

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: J. Barker, M. Maki, E. Kozak, M. Thumphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 CELL NO.: P.O. NO.: 30121857.01908
E-MAIL ADDRESS: joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: RACER Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Lee Lee

TURNAROUND TIME REQUIRED ☒ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Lead (Total)	Lead TCLP	PCBs	Special Instructions
41388.01	10/13/22	0955	SB-81-92(0.75-2)_101322	S	1	X							X	X		hold remainder for possible TCLP Lead
.02		1000	SB-81-92(4-6)_101322													
.03		1010	SB-81-92(8-10)_101322													
.04		1015	SB-81-92(10-12)_101322													
.05		1030	SB-81-92(12-14)_101322													
.06		1140	SB-81-89(0.2-2)_101322													
.07		1145	SB-81-89(4-6)_101322													
.08		1150	SB-81-89(8-10)_101322													
.09		1315	SB-40-30(0-2)_101322													
.10		1318	SB-40-30(4-6)_101322													
.11		1320	SB-40-30(6-8)_101322													
.12		1418	SB-40-31(0-2)_101322													

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE 10/13/22	TIME 1515
RECEIVED BY: SIGNATURE/ORGANIZATION	Arcadis	DATE 10/13/22	TIME 1515
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 10/13/22	TIME 1600
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10/13/22	TIME 1600

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.26.22

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C.O.C. PAGE # _____ OF _____ 156990

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: J Barker, M Maki, E Kozak, M Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 CELL NO.: P.O. NO.: 30121887 1908
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: RACER Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Joey Baca

TURNAROUND TIME REQUIRED ☒ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
41388/13	10/13/22	1420	SB-40-31(4-6)_101322	S	1	X							X
.14	1	1422	SB-40-31(6-8)_101322	S	1	X							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Arcadis (Sampler) NO	DATE 10/13/22	TIME 1515
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10/13/22	TIME 1515
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 10/13/22	TIME 1800
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10/13/22	TIME 1800

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.26.22

Analytical Laboratory Report

Supplemental Report

Report ID: S41388.01(02)
Generated on 10/28/2022
Replaces report S41388.01(01) generated on 10/14/2022

Report to

Attention: Erin Kozak
Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Addtional Contacts: Megan Humphrey, Joey Barker, Micki Maki

Report produced by

Merit Laboratories, Inc.
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East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S41388.01-S41388.14
Project: RACER Buick City
Collected Date(s): 10/13/2022
Submitted Date/Time: 10/13/2022 16:00
Sampled by: Madison Olender
P.O. #: 30121887.01908

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

PCBs added to select samples per client request

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2015
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (14 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S41388.01	SB-81-92(0.75-2)_101322	Soil	10/13/22 09:55
S41388.02	SB-81-92(4-6)_101322	Soil	10/13/22 10:00
S41388.03	SB-81-92(8-10)_101322	Soil	10/13/22 10:10
S41388.04	SB-81-92(10-12)_101322	Soil	10/13/22 10:15
S41388.05	SB-81-92(12-14)_101322	Soil	10/13/22 10:30
S41388.06	SB-81-89(0.2-2)_101322	Soil	10/13/22 11:40
S41388.07	SB-81-89(4-6)_101322	Soil	10/13/22 11:45
S41388.08	SB-81-89(8-10)_101322	Soil	10/13/22 11:50
S41388.09	SB-40-30(0-2)_101322	Soil	10/13/22 13:15
S41388.10	SB-40-30(4-6)_101322	Soil	10/13/22 13:18
S41388.11	SB-40-30(6-8)_101322	Soil	10/13/22 13:20
S41388.12	SB-40-31(0-2)_101322	Soil	10/13/22 14:18
S41388.13	SB-40-31(4-6)_101322	Soil	10/13/22 14:20
S41388.14	SB-40-31(6-8)_101322	Soil	10/13/22 14:22

Lab Sample ID: S41388.01
Sample Tag: SB-81-92(0.75-2)_101322
Collected Date/Time: 10/13/2022 09:55
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 11:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:17, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 13:22, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	9.11	0.30		mg/kg	246	7439-92-1	

Lab Sample ID: S41388.02
Sample Tag: SB-81-92(4-6)_101322
Collected Date/Time: 10/13/2022 10:00
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 11:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 13:24, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	155	0.30		mg/kg	273	7439-92-1	

Lab Sample ID: S41388.03
Sample Tag: SB-81-92(8-10)_101322
Collected Date/Time: 10/13/2022 10:10
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 11:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 13:25, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	71.2	0.30		mg/kg	260	7439-92-1	

Lab Sample ID: S41388.04
Sample Tag: SB-81-92(10-12)_101322
Collected Date/Time: 10/13/2022 10:15
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 11:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	43	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 13:27, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	75.8	0.30		mg/kg	548	7439-92-1	

Lab Sample ID: S41388.05
Sample Tag: SB-81-92(12-14)_101322
Collected Date/Time: 10/13/2022 10:30
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 12:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 13:54, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	3.06	0.30		mg/kg	280	7439-92-1	

Lab Sample ID: S41388.06
Sample Tag: SB-81-89(0.2-2)_101322
Collected Date/Time: 10/13/2022 11:40
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 12:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 13:55, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	38.5	0.30		mg/kg	257	7439-92-1	

Lab Sample ID: S41388.07
Sample Tag: SB-81-89(4-6)_101322
Collected Date/Time: 10/13/2022 11:45
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 12:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 13:57, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	8.86	0.30		mg/kg	253	7439-92-1	

Lab Sample ID: S41388.08
Sample Tag: SB-81-89(8-10)_101322
Collected Date/Time: 10/13/2022 11:50
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 12:00	CCM	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 13:58, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	42.1	0.30		mg/kg	279	7439-92-1	

Lab Sample ID: S41388.09
Sample Tag: SB-40-30(0-2)_101322
Collected Date/Time: 10/13/2022 13:15
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 12:00	CCM	
Extraction, PCB*	Completed	SW3546	10/27/22 16:30	TAW	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 14:00, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	49.7	0.30		mg/kg	292	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/28/22 13:55, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S41388.10
Sample Tag: SB-40-30(4-6)_101322
Collected Date/Time: 10/13/2022 13:18
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 12:00	CCM	
Extraction, PCB*	Completed	SW3546	10/27/22 16:30	TAW	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 14:01, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	10.9	0.30		mg/kg	271	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/28/22 14:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S41388.11
Sample Tag: SB-40-30(6-8)_101322
Collected Date/Time: 10/13/2022 13:20
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 12:00	CCM	
Extraction, PCB*	Completed	SW3546	10/27/22 16:30	TAW	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 14:03, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	2.72	0.30		mg/kg	265	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/28/22 14:46, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S41388.12
Sample Tag: SB-40-31(0-2)_101322
Collected Date/Time: 10/13/2022 14:18
Matrix: Soil
COC Reference: 152126

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/22 12:00	CCM	
Extraction, PCB*	Completed	SW3546	10/27/22 16:30	TAW	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/22 14:05, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	67.0	0.30		mg/kg	259	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/28/22 15:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S41388.13
Sample Tag: SB-40-31(4-6)_101322
Collected Date/Time: 10/13/2022 14:20
Matrix: Soil
COC Reference: 156990

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/14/22 11:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/14/22 14:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

PCB List, Method: SW8082A, Run Date: 10/14/22 14:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1262*	Not detected	330		ug/kg	1	37324-23-5	
PCB-1268*	Not detected	330		ug/kg	1	11100-14-4	

Lab Sample ID: S41388.14
Sample Tag: SB-40-31(6-8)_101322
Collected Date/Time: 10/13/2022 14:22
Matrix: Soil
COC Reference: 156990

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/14/22 11:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/13/22 17:54, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/14/22 14:36, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

PCB List, Method: SW8082A, Run Date: 10/14/22 14:36, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1262*	Not detected	330		ug/kg	1	37324-23-5	
PCB-1268*	Not detected	330		ug/kg	1	11100-14-4	

Merit Laboratories Login Checklist

Lab Set ID: S41388
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: RACER Buick City
Submitted: 10/13/2022 16:00 Login User: PFD

Attention: Erin Kozak
Address: Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.3
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____ 152126

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: J. Barker, M. Maki, E. Kozak, M. Thumphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 CELL NO.: P.O. NO.: 30121857.01908
E-MAIL ADDRESS: joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: RACER Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Lee Lee

TURNAROUND TIME REQUIRED ☒ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Lead (Total)	Lead TCLP	PCBs	Special Instructions
41388.01	10/13/22	0955	SB-81-92(0.75-2)_101322	S	1	X							X	X		hold remainder for possible TCLP Lead
.02		1000	SB-81-92(4-6)_101322													
.03		1010	SB-81-92(8-10)_101322													
.04		1015	SB-81-92(10-12)_101322													
.05		1030	SB-81-92(12-14)_101322													
.06		1140	SB-81-89(0.2-2)_101322													
.07		1145	SB-81-89(4-6)_101322													
.08		1150	SB-81-89(8-10)_101322													
.09		1315	SB-40-30(0-2)_101322													
.10		1318	SB-40-30(4-6)_101322													
.11		1320	SB-40-30(6-8)_101322													
.12		1418	SB-40-31(0-2)_101322													

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE 10/13/22	TIME 1515
RECEIVED BY: SIGNATURE/ORGANIZATION	Arcadis	DATE 10/13/22	TIME 1515
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 10/13/22	TIME 1600
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10/13/22	TIME 1600

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.26.22

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____ 156990

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: J Barker, M Maki, E Kozak, M Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 CELL NO.: P.O. NO.: 30121887 1908
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: RACER Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Joey Baca

TURNAROUND TIME REQUIRED ☒ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Flint

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
41388/13	10/13/22	1420	SB-40-31(4-6)_101322	S	1	X							X
.14	1	1422	SB-40-31(6-8)_101322	S	1	X							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Arcadis (Sampler) NO	DATE 10/13/22	TIME 1515
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10/13/22	TIME 1515
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 10/13/22	TIME 1800
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10/13/22	TIME 1800

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.26.22

Analytical Laboratory Report

Report ID: S41670.01(01)
Generated on 10/24/2022

Report to

Attention: Erin Kozak
Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Addtional Contacts: Megan Humphrey, Joey Barker, Micki Maki

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S41670.01-S41670.12
Project: RACER Buick City
Collected Date(s): 10/20/2022
Submitted Date/Time: 10/20/2022 16:00
Sampled by: Madison Olender
P.O. #: 30121887.01908

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2015
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (12 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S41670.01	SB-55-04(1-3)_102022	Soil	10/20/22 12:05
S41670.02	SB-55-04(3-5)_102022	Soil	10/20/22 12:10
S41670.03	SB-55-05(1-3)_102022	Soil	10/20/22 12:30
S41670.04	SB-55-05(3-5)_102022	Soil	10/20/22 12:35
S41670.05	SB-55-06(1-3)_102022	Soil	10/20/22 12:45
S41670.06	SB-55-06(3-5)_102022	Soil	10/20/22 12:50
S41670.07	SB-10-124(1-2)_102022	Soil	10/20/22 14:10
S41670.08	SB-10-124(7.5-9.5)_102022	Soil	10/20/22 14:15
S41670.09	SB-10-124(9.5-11.5)_102022	Soil	10/20/22 14:20
S41670.10	SB-10-125(1-2)_102022	Soil	10/20/22 14:35
S41670.11	SB-10-125(7.5-9.5)_102022	Soil	10/20/22 14:40
S41670.12	SB-10-125(9.5-11.5)_102022	Soil	10/20/22 14:45

Analytical Laboratory Report

Lab Sample ID: S41670.01
Sample Tag: SB-55-04(1-3)_102022
Collected Date/Time: 10/20/2022 12:05
Matrix: Soil
COC Reference: 154664

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/21/22 21:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/21/22 15:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 12:18, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41670.02
Sample Tag: SB-55-04(3-5)_102022
Collected Date/Time: 10/20/2022 12:10
Matrix: Soil
COC Reference: 154664

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/21/22 21:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/21/22 15:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 12:31, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S41670.03
Sample Tag: SB-55-05(1-3)_102022
Collected Date/Time: 10/20/2022 12:30
Matrix: Soil
COC Reference: 154664

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/21/22 21:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/21/22 15:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	92	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 12:43, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41670.04
Sample Tag: SB-55-05(3-5)_102022
Collected Date/Time: 10/20/2022 12:35
Matrix: Soil
COC Reference: 154664

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/21/22 21:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/21/22 15:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	95	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 12:55, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41670.05
Sample Tag: SB-55-06(1-3)_102022
Collected Date/Time: 10/20/2022 12:45
Matrix: Soil
COC Reference: 154664

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/21/22 21:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/21/22 15:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	94	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 13:07, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41670.06
Sample Tag: SB-55-06(3-5)_102022
Collected Date/Time: 10/20/2022 12:50
Matrix: Soil
COC Reference: 154664

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/21/22 21:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/21/22 15:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 13:19, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41670.07
Sample Tag: SB-10-124(1-2)_102022
Collected Date/Time: 10/20/2022 14:10
Matrix: Soil
COC Reference: 154664

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/21/22 21:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/21/22 15:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 13:31, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	400	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S41670.08
Sample Tag: SB-10-124(7.5-9.5)_102022
Collected Date/Time: 10/20/2022 14:15
Matrix: Soil
COC Reference: 154664

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/21/22 21:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/21/22 15:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 13:43, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S41670.09
Sample Tag: SB-10-124(9.5-11.5)_102022
Collected Date/Time: 10/20/2022 14:20
Matrix: Soil
COC Reference: 154664

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/21/22 21:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/21/22 15:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 13:55, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41670.10
Sample Tag: SB-10-125(1-2)_102022
Collected Date/Time: 10/20/2022 14:35
Matrix: Soil
COC Reference: 154664

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/21/22 21:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/21/22 15:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 14:07, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41670.11
Sample Tag: SB-10-125(7.5-9.5)_102022
Collected Date/Time: 10/20/2022 14:40
Matrix: Soil
COC Reference: 154664

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/21/22 21:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/21/22 15:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 14:19, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41670.12
Sample Tag: SB-10-125(9.5-11.5)_102022
Collected Date/Time: 10/20/2022 14:45
Matrix: Soil
COC Reference: 154664

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/21/22 15:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 14:31, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S41670
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: RACER Buick City
Submitted: 10/20/2022 16:00 Login User: MMC

Attention: Erin Kozak
Address: Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.2
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____ 154664

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME	Arcadis - J. Barker, M Humphrey, M Maki, E Kozak
COMPANY	Arcadis
ADDRESS	28550 Cabot Dr #500
CITY	Novi
STATE	MI
ZIP CODE	48377
PHONE NO.	248-790-5218
CELL NO.	
P.O. NO.	30121887.01908
E-MAIL ADDRESS	Joey.barker@arcadis.com
QUOTE NO.	

INVOICE TO

CONTACT NAME	☐ SAME
COMPANY	
ADDRESS	
CITY	STATE / ZIP CODE
PHONE NO.	E-MAIL ADDRESS

PROJECT NO./NAME: RACER BUICK CITY

SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Oldfield

TURNAROUND TIME REQUIRED ☐ 1 DAY ☒ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other _____

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBS
41670.01	10/20/22	1205	SB-55-04(1-3)_102022	S	1	X							X
.02		1210	SB-55-04(3-5)_102022										
.03		1230	SB-55-05(1-3)_102022										
.04		1235	SB-55-05(3-5)_102022										
.05		1245	SB-55-06(1-3)_102022										
.06		1250	SB-55-06(3-5)_102022										
.07		1410	SB-10-124(1-2)_102022										
.08		1415	SB-10-124(7.5-9.5)_102022										
.09		1420	SB-10-124(9.5-11.5)_102022										
.10		1435	SB-10-125(1-2)_102022										
.11		1440	SB-10-125(7.5-9.5)_102022										
.12		1445	SB-10-125(9.5-11.5)_102022										

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Sampler	DATE 10/20/22	TIME 1500
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10/20/22	TIME 1500
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 10/20/22	TIME 1600
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10/20/22	TIME 1600

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. _____ SEAL INTACT YES ☐ NO ☐ INITIALS _____

SEAL NO. _____ SEAL INTACT YES ☐ NO ☐ INITIALS _____

NOTES: TEMP. ON ARRIVAL 3.2

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.26.22

Analytical Laboratory Report

Report ID: S41731.01(01)
Generated on 10/26/2022

Report to

Attention: Erin Kozak
Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Addtional Contacts: Megan Humphrey, Joey Barker, Micki Maki

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S41731.01-S41731.34
Project: RACER Buick City
Collected Date(s): 10/20/2022 - 10/21/2022
Submitted Date/Time: 10/21/2022 15:50
Sampled by: Madison Olender
P.O. #: 30121887.01908

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2015
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (34 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S41731.01	20-210R2(1-2)_102022	Soil	10/20/22 15:15
S41731.02	SB-10-123(1-2)_102022	Soil	10/20/22 15:30
S41731.03	SB-10-123(7.5-9.5)_102022	Soil	10/20/22 15:35
S41731.04	SB-10-123(9.5-11.5)_102022	Soil	10/20/22 15:40
S41731.05	SB-10-126(0-2)_102022	Soil	10/20/22 15:55
S41731.06	SB-10-126(7.5-9.5)_102022	Soil	10/20/22 16:00
S41731.07	SB-10-126(9.5-11.5)_102022	Soil	10/20/22 16:05
S41731.08	SB-10-105(1-3)_102122	Soil	10/21/22 08:50
S41731.09	SB-10-105(4-6)_102122	Soil	10/21/22 08:55
S41731.10	SB-10-105(6-8)_102122	Soil	10/21/22 09:00
S41731.11	SB-10-105(8-10)_102122	Soil	10/21/22 09:05
S41731.12	SB-10-105(10-12)_102122	Soil	10/21/22 09:10
S41731.13	SB-10-105(12-14)_102122	Soil	10/21/22 09:15
S41731.14	SB-10-105(14-16)_102122	Soil	10/21/22 09:20
S41731.15	SB-10-106(1-3)_102122	Soil	10/21/22 09:50
S41731.16	SB-10-106(4-6)_102122	Soil	10/21/22 09:55
S41731.17	SB-10-106(6-8)_102122	Soil	10/21/22 10:00
S41731.18	SB-10-106(8-10)_102122	Soil	10/21/22 10:05
S41731.19	SB-10-106(10-12)_102122	Soil	10/21/22 10:10
S41731.20	SB-10-106(12-13)_102122	Soil	10/21/22 10:15
S41731.21	SB-10-106(13-14)_102122	Soil	10/21/22 10:20
S41731.22	SB-10-106(16-18)_102122	Soil	10/21/22 10:25
S41731.23	20-249R2(1-2)_102122	Soil	10/21/22 13:45
S41731.24	20-249R2(2-4)_102122	Soil	10/21/22 13:50
S41731.25	20-249R2(4-6)_102122	Soil	10/21/22 13:55
S41731.26	SB-10-107(1-2)_102122	Soil	10/21/22 13:30
S41731.27	SB-10-107(2-4)_102122	Soil	10/21/22 13:35
S41731.28	SB-10-107(4-6)_102122	Soil	10/21/22 13:40
S41731.29	SB-10-109(1-2)_102122	Soil	10/21/22 14:00
S41731.30	SB-10-109(2-4)_102122	Soil	10/21/22 14:05
S41731.31	SB-10-109(4-6)_102122	Soil	10/21/22 14:10
S41731.32	SB-10-110(1-2)_102122	Soil	10/21/22 14:15
S41731.33	SB-10-110(2-4)_102122	Soil	10/21/22 14:20
S41731.34	SB-10-110(4-6)_102122	Soil	10/21/22 14:25

Analytical Laboratory Report

Lab Sample ID: S41731.01
Sample Tag: 20-210R2(1-2)_102022
Collected Date/Time: 10/20/2022 15:15
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 21:48, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S41731.02
Sample Tag: SB-10-123(1-2)_102022
Collected Date/Time: 10/20/2022 15:30
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	96	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 22:05, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S41731.03
Sample Tag: SB-10-123(7.5-9.5)_102022
Collected Date/Time: 10/20/2022 15:35
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 17:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S41731.04
Sample Tag: SB-10-123(9.5-11.5)_102022
Collected Date/Time: 10/20/2022 15:40
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 14:39, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Lab Sample ID: S41731.05
Sample Tag: SB-10-126(0-2)_102022
Collected Date/Time: 10/20/2022 15:55
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 17:30, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.06
Sample Tag: SB-10-126(7.5-9.5)_102022
Collected Date/Time: 10/20/2022 16:00
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 17:47, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S41731.07
Sample Tag: SB-10-126(9.5-11.5)_102022
Collected Date/Time: 10/20/2022 16:05
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 18:04, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.08
Sample Tag: SB-10-105(1-3)_102122
Collected Date/Time: 10/21/2022 08:50
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Metals

Method: SW6020A, Run Date: 10/25/22 15:03, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	20.5	0.30		mg/kg	244	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 17:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	400	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.09
Sample Tag: SB-10-105(4-6)_102122
Collected Date/Time: 10/21/2022 08:55
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	92	1		%	1		

Metals

Method: SW6020A, Run Date: 10/25/22 15:05, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	20.9	0.30		mg/kg	226	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 17:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.10
Sample Tag: SB-10-105(6-8)_102122
Collected Date/Time: 10/21/2022 09:00
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Metals

Method: SW6020A, Run Date: 10/25/22 15:09, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	764	3.0		mg/kg	2380	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 17:35, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.11
Sample Tag: SB-10-105(8-10)_102122
Collected Date/Time: 10/21/2022 09:05
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Metals

Method: SW6020A, Run Date: 10/25/22 15:10, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	126	0.30		mg/kg	222	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 17:47, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.12
Sample Tag: SB-10-105(10-12)_102122
Collected Date/Time: 10/21/2022 09:10
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 10/25/22 15:12, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	471	0.30		mg/kg	244	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 18:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S41731.13
Sample Tag: SB-10-105(12-14)_102122
Collected Date/Time: 10/21/2022 09:15
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Metals

Method: SW6020A, Run Date: 10/25/22 15:17, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	262	0.30		mg/kg	265	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 18:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.14
Sample Tag: SB-10-105(14-16)_102122
Collected Date/Time: 10/21/2022 09:20
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Metals

Method: SW6020A, Run Date: 10/25/22 15:19, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	616	0.30		mg/kg	254	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 18:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.15
Sample Tag: SB-10-106(1-3)_102122
Collected Date/Time: 10/21/2022 09:50
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Metals

Method: SW6020A, Run Date: 10/25/22 15:20, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	502	0.30		mg/kg	251	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 18:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.16
Sample Tag: SB-10-106(4-6)_102122
Collected Date/Time: 10/21/2022 09:55
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Metals

Method: SW6020A, Run Date: 10/25/22 15:27, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	15,018	60.0		mg/kg	48600	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 19:01, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.17
Sample Tag: SB-10-106(6-8)_102122
Collected Date/Time: 10/21/2022 10:00
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	95	1		%	1		

Metals

Method: SW6020A, Run Date: 10/25/22 15:29, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	74.9	0.30		mg/kg	228	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 19:13, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S41731.18
Sample Tag: SB-10-106(8-10)_102122
Collected Date/Time: 10/21/2022 10:05
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Metals

Method: SW6020A, Run Date: 10/25/22 15:31, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	19.5	0.30		mg/kg	248	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 19:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.19
Sample Tag: SB-10-106(10-12)_102122
Collected Date/Time: 10/21/2022 10:10
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Metals

Method: SW6020A, Run Date: 10/25/22 15:32, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	9.00	0.30		mg/kg	243	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 19:37, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Lab Sample ID: S41731.20
Sample Tag: SB-10-106(12-13)_102122
Collected Date/Time: 10/21/2022 10:15
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Metals

Method: SW6020A, Run Date: 10/25/22 15:33, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	8.13	0.30		mg/kg	262	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 19:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.21
Sample Tag: SB-10-106(13-14)_102122
Collected Date/Time: 10/21/2022 10:20
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Metals

Method: SW6020A, Run Date: 10/25/22 15:35, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	13.2	0.30		mg/kg	234	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 20:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.22
Sample Tag: SB-10-106(16-18)_102122
Collected Date/Time: 10/21/2022 10:25
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Metals

Method: SW6020A, Run Date: 10/25/22 15:13, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead	4.41	0.30		mg/kg	245	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 20:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.23
Sample Tag: 20-249R2(1-2)_102122
Collected Date/Time: 10/21/2022 13:45
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 20:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.24
Sample Tag: 20-249R2(2-4)_102122
Collected Date/Time: 10/21/2022 13:50
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 20:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.25
Sample Tag: 20-249R2(4-6)_102122
Collected Date/Time: 10/21/2022 13:55
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 20:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.26
Sample Tag: SB-10-107(1-2)_102122
Collected Date/Time: 10/21/2022 13:30
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 21:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.27
Sample Tag: SB-10-107(2-4)_102122
Collected Date/Time: 10/21/2022 13:35
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 21:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.28
Sample Tag: SB-10-107(4-6)_102122
Collected Date/Time: 10/21/2022 13:40
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 21:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.29
Sample Tag: SB-10-109(1-2)_102122
Collected Date/Time: 10/21/2022 14:00
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 21:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.30
Sample Tag: SB-10-109(2-4)_102122
Collected Date/Time: 10/21/2022 14:05
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 22:03, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.31
Sample Tag: SB-10-109(4-6)_102122
Collected Date/Time: 10/21/2022 14:10
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 22:15, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.32
Sample Tag: SB-10-110(1-2)_102122
Collected Date/Time: 10/21/2022 14:15
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 22:27, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.33
Sample Tag: SB-10-110(2-4)_102122
Collected Date/Time: 10/21/2022 14:20
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	95	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 22:39, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S41731.34
Sample Tag: SB-10-110(4-6)_102122
Collected Date/Time: 10/21/2022 14:25
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	96	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 22:51, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S41731
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: RACER Buick City
Submitted: 10/21/2022 15:50 Login User: MMC

Attention: Erin Kozak
Address: Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 2.4
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____ 154660

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Joey Barker, M. Maki, E Kozak, M Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 CELL NO.: P.O. NO.: 30121887.01908
E-MAIL ADDRESS: joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: RACER BUICK CITY
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olenderlee

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	lead (total)	Special Instructions
41731.01	10/20/22	1515	20-210R2(1-2)_102022	S	1	X							X	~~X~~ MS	hold remainder for possible lead TCLP
.02		1530	SB10-123(1-2)_102022												
.03		1535	SB-10-123(7.5-9.5)_102022												
.04		1540	SB-10-123(9.5-11.5)_102022												
.05		1555	SB-10-126(0-2)_102022												
.06		1600	SB-10-126(7.5-9.5)_102022												
.07		1605	SB-10-126(9.5-11.5)_102022												
.08	10/21/22	0850	SB-10-105(1-3)_102122											X	
.09		0855	SB-10-105(4-6)_102122												
.10		0900	SB-10-105(6-8)_102122												
.11		0905	SB-10-105(8-10)_102122												
.12		0910	SB-10-105(10-12)_102122												

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Arcadis ☒ Sampler	DATE 10/21/22	TIME 1455
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10/21/22	TIME 14:55
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 10/21/22	TIME 15:50
RECEIVED BY: SIGNATURE/ORGANIZATION	M Allcott	DATE 10/21/22	TIME 1550

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 2.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.26.22

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____ 154661

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: J. Barker, M Maki, E Kozak, M Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 CELL NO.: P.O. NO.: 30121887-01908
E-MAIL ADDRESS: Joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: RATER BUICK CITY
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☐ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	lead (total)	Special Instructions
4173 1.13	10/21/22	0915	SB-10-105(12-14)_102122	S	1	X							X	X	hold remainder for possible lead TCLP
.14		0920	SB-10-105(14-16)_102122												
.15		0950	SB-10-106(1-3)_102122												
.16		0955	SB-10-106(4-6)_102122												
.17		1000	SB-10-106(6-8)_102122												
.18		1005	SB-10-106(8-10)_102122												
.19		1010	SB-10-106(10-12)_102122												
.20		1015	SB-10-106(12-13)_102122												
.21		1020	SB-10-106(13-14)_102122												
.22		1025	SB-10-106(16-18)_102122												
.23		~~1330~~ 1345	20-249RZ(1-2)_102122												
.24		~~1350~~ 1350	20-249RZ(2-4)_102122												

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
	Arcadis ☒ Sampler	10/21/22	1455
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
		10/21/22	1455
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
		10/21/22	1515
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
		10/21/22	1550

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 2.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.26.22

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C.O.C. PAGE # _____ OF _____ 154666

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Arcadis - J. Parker, M Maki, E Kozak, M Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO: 248-790-5218 CELL NO.: P.O. NO.: 30121837.01908
E-MAIL ADDRESS: joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: RACER Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other _____
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
41731.25	10/21/22	1355	20-249R2(4-6)_102122	S	1	X							X
.26		1330	SB-10-107(1-2)_102122										
.27		1335	SB-10-107(2-4)_102122										
.28		1340	SB-10-107(4-6)_102122										
			~~SB-10-108(1-2)_102122 NO~~										
			~~SB-10-108(2-4)_102122 NO~~										
			~~SB-10-108(4-6)_102122 NO~~										
29		1400	SB-10-109(1-2)_102122										
.30		1405	SB-10-109(2-4)_102122										
.31		1410	SB-10-109(4-6)_102122										
.32		1415	SB-10-110(1-2)_102122										
.33		1420	SB-10-110(2-4)_102122										
.34		1425	SB-10-110(4-6)_102122										

	SIGNATURE/ORGANIZATION	DATE	TIME
RELINQUISHED BY:	Arcadis	10/21/22	1455
RECEIVED BY:		10/21/22	1435
RELINQUISHED BY:		10/21/22	1515
RECEIVED BY:		10/21/22	1550

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 2.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.26.22

Analytical Laboratory Report

Supplemental Report

Report ID: S41731.01(02)
Generated on 11/01/2022
Replaces report S41731.01(01) generated on 10/26/2022

Report to

Attention: Erin Kozak
Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Addtional Contacts: Megan Humphrey, Joey Barker, Micki Maki

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S41731.01-S41731.34
Project: RACER Buick City
Collected Date(s): 10/20/2022 - 10/21/2022
Submitted Date/Time: 10/21/2022 15:50
Sampled by: Madison Olender
P.O. #: 30121887.01908

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

Added analyses completed

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2015
SW1311	SW 846 Method 1311 Revision 0 July 1992
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (34 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S41731.01	20-210R2(1-2)_102022	Soil	10/20/22 15:15
S41731.02	SB-10-123(1-2)_102022	Soil	10/20/22 15:30
S41731.03	SB-10-123(7.5-9.5)_102022	Soil	10/20/22 15:35
S41731.04	SB-10-123(9.5-11.5)_102022	Soil	10/20/22 15:40
S41731.05	SB-10-126(0-2)_102022	Soil	10/20/22 15:55
S41731.06	SB-10-126(7.5-9.5)_102022	Soil	10/20/22 16:00
S41731.07	SB-10-126(9.5-11.5)_102022	Soil	10/20/22 16:05
S41731.08	SB-10-105(1-3)_102122	Soil	10/21/22 08:50
S41731.09	SB-10-105(4-6)_102122	Soil	10/21/22 08:55
S41731.10	SB-10-105(6-8)_102122	Soil	10/21/22 09:00
S41731.11	SB-10-105(8-10)_102122	Soil	10/21/22 09:05
S41731.12	SB-10-105(10-12)_102122	Soil	10/21/22 09:10
S41731.13	SB-10-105(12-14)_102122	Soil	10/21/22 09:15
S41731.14	SB-10-105(14-16)_102122	Soil	10/21/22 09:20
S41731.15	SB-10-106(1-3)_102122	Soil	10/21/22 09:50
S41731.16	SB-10-106(4-6)_102122	Soil	10/21/22 09:55
S41731.17	SB-10-106(6-8)_102122	Soil	10/21/22 10:00
S41731.18	SB-10-106(8-10)_102122	Soil	10/21/22 10:05
S41731.19	SB-10-106(10-12)_102122	Soil	10/21/22 10:10
S41731.20	SB-10-106(12-13)_102122	Soil	10/21/22 10:15
S41731.21	SB-10-106(13-14)_102122	Soil	10/21/22 10:20
S41731.22	SB-10-106(16-18)_102122	Soil	10/21/22 10:25
S41731.23	20-249R2(1-2)_102122	Soil	10/21/22 13:45
S41731.24	20-249R2(2-4)_102122	Soil	10/21/22 13:50
S41731.25	20-249R2(4-6)_102122	Soil	10/21/22 13:55
S41731.26	SB-10-107(1-2)_102122	Soil	10/21/22 13:30
S41731.27	SB-10-107(2-4)_102122	Soil	10/21/22 13:35
S41731.28	SB-10-107(4-6)_102122	Soil	10/21/22 13:40
S41731.29	SB-10-109(1-2)_102122	Soil	10/21/22 14:00
S41731.30	SB-10-109(2-4)_102122	Soil	10/21/22 14:05
S41731.31	SB-10-109(4-6)_102122	Soil	10/21/22 14:10
S41731.32	SB-10-110(1-2)_102122	Soil	10/21/22 14:15
S41731.33	SB-10-110(2-4)_102122	Soil	10/21/22 14:20
S41731.34	SB-10-110(4-6)_102122	Soil	10/21/22 14:25

Lab Sample ID: S41731.01
Sample Tag: 20-210R2(1-2)_102022
Collected Date/Time: 10/20/2022 15:15
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 21:48, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.02
Sample Tag: SB-10-123(1-2)_102022
Collected Date/Time: 10/20/2022 15:30
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	96	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 22:05, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.03
Sample Tag: SB-10-123(7.5-9.5)_102022
Collected Date/Time: 10/20/2022 15:35
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 17:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.04
Sample Tag: SB-10-123(9.5-11.5)_102022
Collected Date/Time: 10/20/2022 15:40
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	81	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 14:39, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		

Lab Sample ID: S41731.05
Sample Tag: SB-10-126(0-2)_102022
Collected Date/Time: 10/20/2022 15:55
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 17:30, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.06
Sample Tag: SB-10-126(7.5-9.5)_102022
Collected Date/Time: 10/20/2022 16:00
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 17:47, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.07
Sample Tag: SB-10-126(9.5-11.5)_102022
Collected Date/Time: 10/20/2022 16:05
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 18:04, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.08
Sample Tag: SB-10-105(1-3)_102122
Collected Date/Time: 10/21/2022 08:50
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:03, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	20.5	0.30		mg/kg	244	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 17:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	400	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.09
Sample Tag: SB-10-105(4-6)_102122
Collected Date/Time: 10/21/2022 08:55
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:05, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	20.9	0.30		mg/kg	226	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 17:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.10
Sample Tag: SB-10-105(6-8)_102122
Collected Date/Time: 10/21/2022 09:00
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	11/01/22 11:00	CCM	
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Initial Sample pH	8.90	SW1311	10/31/22 17:00 - 11/01/22	DMP	
pH after 3.5 ml HCl	2.55	SW1311	10/31/22 17:00 - 11/01/22	DMP	
% Solids	100	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Sample Used g	40	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Volume mL	800	SW1311	10/31/22 17:00 - 11/01/22	DMP	
TCLP Extraction Fluid	1	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Extract pH	5.66	SW1311	10/31/22 17:00 - 11/01/22	DMP	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:09, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	764	3.0		mg/kg	2380	7439-92-1		

Method: SW6020A, Run Date: 11/01/22 12:38, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	1.72	0.03		mg/L	25	7439-92-1		5.0

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 17:35, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.11
Sample Tag: SB-10-105(8-10)_102122
Collected Date/Time: 10/21/2022 09:05
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:10, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	126	0.30		mg/kg	222	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 17:47, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.12
Sample Tag: SB-10-105(10-12)_102122
Collected Date/Time: 10/21/2022 09:10
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	11/01/22 11:00	CCM	
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Initial Sample pH	8.91	SW1311	10/31/22 17:00 - 11/01/22	DMP	
pH after 3.5 ml HCl	1.90	SW1311	10/31/22 17:00 - 11/01/22	DMP	
% Solids	100	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Sample Used g	40	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Volume mL	800	SW1311	10/31/22 17:00 - 11/01/22	DMP	
TCLP Extraction Fluid	1	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Extract pH	5.29	SW1311	10/31/22 17:00 - 11/01/22	DMP	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:12, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	471	0.30		mg/kg	244	7439-92-1		

Method: SW6020A, Run Date: 11/01/22 12:40, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	6.33	0.03		mg/L	25	7439-92-1	!	5.0

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 18:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

!-Result is outside of stated limit criteria

Lab Sample ID: S41731.13
Sample Tag: SB-10-105(12-14)_102122
Collected Date/Time: 10/21/2022 09:15
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	11/01/22 11:00	CCM	
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Initial Sample pH	8.79	SW1311	10/31/22 17:00 - 11/01/22	DMP	
pH after 3.5 ml HCl	1.83	SW1311	10/31/22 17:00 - 11/01/22	DMP	
% Solids	100	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Sample Used g	40	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Volume mL	800	SW1311	10/31/22 17:00 - 11/01/22	DMP	
TCLP Extraction Fluid	1	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Extract pH	5.34	SW1311	10/31/22 17:00 - 11/01/22	DMP	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	84	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:17, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	262	0.30		mg/kg	265	7439-92-1		

Method: SW6020A, Run Date: 11/01/22 12:42, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	1.03	0.03		mg/L	25	7439-92-1		5.0

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 18:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.14
Sample Tag: SB-10-105(14-16)_102122
Collected Date/Time: 10/21/2022 09:20
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	11/01/22 11:00	CCM	
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Initial Sample pH	9.04	SW1311	10/31/22 17:00 - 11/01/22	DMP	
pH after 3.5 ml HCl	1.90	SW1311	10/31/22 17:00 - 11/01/22	DMP	
% Solids	100	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Sample Used g	40	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Volume mL	800	SW1311	10/31/22 17:00 - 11/01/22	DMP	
TCLP Extraction Fluid	1	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Extract pH	5.65	SW1311	10/31/22 17:00 - 11/01/22	DMP	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	84	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:19, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	616	0.30		mg/kg	254	7439-92-1		

Method: SW6020A, Run Date: 11/01/22 12:44, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	2.28	0.03		mg/L	25	7439-92-1		5.0

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 18:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.15
Sample Tag: SB-10-106(1-3)_102122
Collected Date/Time: 10/21/2022 09:50
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	11/01/22 11:00	CCM	
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Initial Sample pH	9.04	SW1311	10/31/22 17:00 - 11/01/22	DMP	
pH after 3.5 ml HCl	1.80	SW1311	10/31/22 17:00 - 11/01/22	DMP	
% Solids	100	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Sample Used g	40	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Volume mL	800	SW1311	10/31/22 17:00 - 11/01/22	DMP	
TCLP Extraction Fluid	1	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Extract pH	5.73	SW1311	10/31/22 17:00 - 11/01/22	DMP	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:20, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	502	0.30		mg/kg	251	7439-92-1		

Method: SW6020A, Run Date: 11/01/22 12:46, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	1.74	0.03		mg/L	25	7439-92-1		5.0

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 18:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.16
Sample Tag: SB-10-106(4-6)_102122
Collected Date/Time: 10/21/2022 09:55
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:27, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	15,018	60.0		mg/kg	48600	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 19:01, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.17
Sample Tag: SB-10-106(6-8)_102122
Collected Date/Time: 10/21/2022 10:00
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	95	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:29, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	74.9	0.30		mg/kg	228	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 19:13, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.18
Sample Tag: SB-10-106(8-10)_102122
Collected Date/Time: 10/21/2022 10:05
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:31, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	19.5	0.30		mg/kg	248	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 19:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.19
Sample Tag: SB-10-106(10-12)_102122
Collected Date/Time: 10/21/2022 10:10
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	84	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:32, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	9.00	0.30		mg/kg	243	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 19:37, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.20
Sample Tag: SB-10-106(12-13)_102122
Collected Date/Time: 10/21/2022 10:15
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	84	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:33, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	8.13	0.30		mg/kg	262	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 19:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.21
Sample Tag: SB-10-106(13-14)_102122
Collected Date/Time: 10/21/2022 10:20
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:35, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	13.2	0.30		mg/kg	234	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 20:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.22
Sample Tag: SB-10-106(16-18)_102122
Collected Date/Time: 10/21/2022 10:25
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	85	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:13, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	4.41	0.30		mg/kg	245	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 20:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.23
Sample Tag: 20-249R2(1-2)_102122
Collected Date/Time: 10/21/2022 13:45
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 20:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.24
Sample Tag: 20-249R2(2-4)_102122
Collected Date/Time: 10/21/2022 13:50
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 20:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.25
Sample Tag: 20-249R2(4-6)_102122
Collected Date/Time: 10/21/2022 13:55
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 20:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.26
Sample Tag: SB-10-107(1-2)_102122
Collected Date/Time: 10/21/2022 13:30
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 21:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.27
Sample Tag: SB-10-107(2-4)_102122
Collected Date/Time: 10/21/2022 13:35
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	89	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 21:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.28
Sample Tag: SB-10-107(4-6)_102122
Collected Date/Time: 10/21/2022 13:40
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 21:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.29
Sample Tag: SB-10-109(1-2)_102122
Collected Date/Time: 10/21/2022 14:00
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 21:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.30
Sample Tag: SB-10-109(2-4)_102122
Collected Date/Time: 10/21/2022 14:05
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 22:03, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.31
Sample Tag: SB-10-109(4-6)_102122
Collected Date/Time: 10/21/2022 14:10
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	85	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 22:15, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.32
Sample Tag: SB-10-110(1-2)_102122
Collected Date/Time: 10/21/2022 14:15
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	93	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 22:27, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.33
Sample Tag: SB-10-110(2-4)_102122
Collected Date/Time: 10/21/2022 14:20
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	95	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 22:39, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.34
Sample Tag: SB-10-110(4-6)_102122
Collected Date/Time: 10/21/2022 14:25
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	96	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 22:51, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Merit Laboratories Login Checklist

Lab Set ID: S41731
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: RACER Buick City
Submitted: 10/21/2022 15:50 Login User: MMC

Attention: Erin Kozak
Address: Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 2.4
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____ 154660

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Joey Barker, M. Maki, E Kozak, M Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 CELL NO.: P.O. NO.: 30121887.01908
E-MAIL ADDRESS: joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: RACER BUICK CITY
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olenderlee

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	lead (total)	Special Instructions
41731.01	10/20/22	1515	20-210R2(1-2)_102022	S	1	X							X	~~X~~ MS	hold remainder for possible lead TCLP
.02		1530	SB10-123(1-2)_102022												
.03		1535	SB-10-123(7.5-9.5)_102022												
.04		1540	SB-10-123(9.5-11.5)_102022												
.05		1555	SB-10-126(0-2)_102022												
.06		1600	SB-10-126(7.5-9.5)_102022												
.07		1605	SB-10-126(9.5-11.5)_102022												
.08	10/21/22	0850	SB-10-105(1-3)_102122											X	
.09		0855	SB-10-105(4-6)_102122												
.10		0900	SB-10-105(6-8)_102122												
.11		0905	SB-10-105(8-10)_102122												
.12		0910	SB-10-105(10-12)_102122												

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Arcadis ☒ Sampler	DATE 10/21/22	TIME 1455
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10/21/22	TIME 14:55
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 10/21/22	TIME 15:50
RECEIVED BY: SIGNATURE/ORGANIZATION	M Allcott	DATE 10/21/22	TIME 1550

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 2.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.26.22

Merit Laboratories, Inc.

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C.O.C. PAGE # _____ OF _____ 154661

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: J. Barker, M Maki, E Kozak, M Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 CELL NO.: P.O. NO.: 30121887-01908
E-MAIL ADDRESS: Joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: RATER BUICK CITY
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☐ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	lead (total)	Special Instructions
4173 1.13	10/21/22	0915	SB-10-105(12-14)_102122	S	1	X							X	X	hold remainder for possible lead TCLP
.14		0920	SB-10-105(14-16)_102122												
.15		0950	SB-10-106(1-3)_102122												
.16		0955	SB-10-106(4-6)_102122												
.17		1000	SB-10-106(6-8)_102122												
.18		1005	SB-10-106(8-10)_102122												
.19		1010	SB-10-106(10-12)_102122												
.20		1015	SB-10-106(12-13)_102122												
.21		1020	SB-10-106(13-14)_102122												
.22		1025	SB-10-106(16-18)_102122												
.23		~~1330~~ 1345	20-249RZ(1-2)_102122												
.24		~~1350~~ 1350	20-249RZ(2-4)_102122												

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
	Arcadis ☒ Sampler	10/21/22	1455
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
		10/21/22	1455
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
		10/21/22	1515
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
		10/21/22	1550

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 2.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.26.22

Merit Laboratories, Inc.

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C.O.C. PAGE # _____ OF _____ 154666

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Arcadis - J. Parker, M Maki, E Kozak, M Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO: 248-790-5218 CELL NO.: P.O. NO.: 30121837.01908
E-MAIL ADDRESS: joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: RACER Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other _____
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
41731.25	10/21/22	1355	20-249R2(4-6)_102122	S	1	X							X
.26		1330	SB-10-107(1-2)_102122										
.27		1335	SB-10-107(2-4)_102122										
.28		1340	SB-10-107(4-6)_102122										
			~~SB-10-108(1-2)_102122 NO~~										
			~~SB-10-108(2-4)_102122 NO~~										
			~~SB-10-108(4-6)_102122 NO~~										
29		1400	SB-10-109(1-2)_102122										
.30		1405	SB-10-109(2-4)_102122										
.31		1410	SB-10-109(4-6)_102122										
.32		1415	SB-10-110(1-2)_102122										
.33		1420	SB-10-110(2-4)_102122										
.34		1425	SB-10-110(4-6)_102122										

	SIGNATURE/ORGANIZATION	DATE	TIME
RELINQUISHED BY:	Arcadis	10/21/22	1455
RECEIVED BY:		10/21/22	1435
RELINQUISHED BY:		10/21/22	1515
RECEIVED BY:		10/21/22	1550

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 2.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.26.22

Analytical Laboratory Report

Revised Report

Report ID: S41731.01(03)
Generated on 11/02/2022
Replaces report S41731.01(02) generated on 11/01/2022

Report to

Attention: Erin Kozak
Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Addtional Contacts: Megan Humphrey, Joey Barker, Micki Maki

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Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S41731.01-S41731.34
Project: RACER Buick City
Collected Date(s): 10/20/2022 - 10/21/2022
Submitted Date/Time: 10/21/2022 15:50
Sampled by: Madison Olender
P.O. #: 30121887.01908

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

Sample tag changes per client request

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2015
SW1311	SW 846 Method 1311 Revision 0 July 1992
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (34 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S41731.01	20-210R(1-2)_102022	Soil	10/20/22 15:15
S41731.02	SB-10-123(1-2)_102022	Soil	10/20/22 15:30
S41731.03	SB-10-123(7.5-9.5)_102022	Soil	10/20/22 15:35
S41731.04	SB-10-123(9.5-11.5)_102022	Soil	10/20/22 15:40
S41731.05	SB-10-126(0-2)_102022	Soil	10/20/22 15:55
S41731.06	SB-10-126(7.5-9.5)_102022	Soil	10/20/22 16:00
S41731.07	SB-10-126(9.5-11.5)_102022	Soil	10/20/22 16:05
S41731.08	SB-10-105(1-3)_102122	Soil	10/21/22 08:50
S41731.09	SB-10-105(4-6)_102122	Soil	10/21/22 08:55
S41731.10	SB-10-105(6-8)_102122	Soil	10/21/22 09:00
S41731.11	SB-10-105(8-10)_102122	Soil	10/21/22 09:05
S41731.12	SB-10-105(10-12)_102122	Soil	10/21/22 09:10
S41731.13	SB-10-105(12-14)_102122	Soil	10/21/22 09:15
S41731.14	SB-10-105(14-16)_102122	Soil	10/21/22 09:20
S41731.15	SB-10-106(1-3)_102122	Soil	10/21/22 09:50
S41731.16	SB-10-106(4-6)_102122	Soil	10/21/22 09:55
S41731.17	SB-10-106(6-8)_102122	Soil	10/21/22 10:00
S41731.18	SB-10-106(8-10)_102122	Soil	10/21/22 10:05
S41731.19	SB-10-106(10-12)_102122	Soil	10/21/22 10:10
S41731.20	SB-10-106(12-13)_102122	Soil	10/21/22 10:15
S41731.21	SB-10-106(13-14)_102122	Soil	10/21/22 10:20
S41731.22	SB-10-106(16-18)_102122	Soil	10/21/22 10:25
S41731.23	20-249R(1-2)_102122	Soil	10/21/22 13:45
S41731.24	20-249R(2-4)_102122	Soil	10/21/22 13:50
S41731.25	20-249R(4-6)_102122	Soil	10/21/22 13:55
S41731.26	SB-10-107(1-2)_102122	Soil	10/21/22 13:30
S41731.27	SB-10-107(2-4)_102122	Soil	10/21/22 13:35
S41731.28	SB-10-107(4-6)_102122	Soil	10/21/22 13:40
S41731.29	SB-10-109(1-2)_102122	Soil	10/21/22 14:00
S41731.30	SB-10-109(2-4)_102122	Soil	10/21/22 14:05
S41731.31	SB-10-109(4-6)_102122	Soil	10/21/22 14:10
S41731.32	SB-10-110(1-2)_102122	Soil	10/21/22 14:15
S41731.33	SB-10-110(2-4)_102122	Soil	10/21/22 14:20
S41731.34	SB-10-110(4-6)_102122	Soil	10/21/22 14:25

Lab Sample ID: S41731.01
Sample Tag: 20-210R(1-2)_102022
Collected Date/Time: 10/20/2022 15:15
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 21:48, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.02
Sample Tag: SB-10-123(1-2)_102022
Collected Date/Time: 10/20/2022 15:30
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	96	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 22:05, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.03
Sample Tag: SB-10-123(7.5-9.5)_102022
Collected Date/Time: 10/20/2022 15:35
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 17:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.04
Sample Tag: SB-10-123(9.5-11.5)_102022
Collected Date/Time: 10/20/2022 15:40
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	81	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 14:39, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		

Lab Sample ID: S41731.05
Sample Tag: SB-10-126(0-2)_102022
Collected Date/Time: 10/20/2022 15:55
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 17:30, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.06
Sample Tag: SB-10-126(7.5-9.5)_102022
Collected Date/Time: 10/20/2022 16:00
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 17:47, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.07
Sample Tag: SB-10-126(9.5-11.5)_102022
Collected Date/Time: 10/20/2022 16:05
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/22/22 14:30	JWR	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/24/22 18:04, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.08
Sample Tag: SB-10-105(1-3)_102122
Collected Date/Time: 10/21/2022 08:50
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:03, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	20.5	0.30		mg/kg	244	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 17:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	400	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.09
Sample Tag: SB-10-105(4-6)_102122
Collected Date/Time: 10/21/2022 08:55
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:05, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	20.9	0.30		mg/kg	226	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 17:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.10
Sample Tag: SB-10-105(6-8)_102122
Collected Date/Time: 10/21/2022 09:00
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	11/01/22 11:00	CCM	
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Initial Sample pH	8.90	SW1311	10/31/22 17:00 - 11/01/22	DMP	
pH after 3.5 ml HCl	2.55	SW1311	10/31/22 17:00 - 11/01/22	DMP	
% Solids	100	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Sample Used g	40	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Volume mL	800	SW1311	10/31/22 17:00 - 11/01/22	DMP	
TCLP Extraction Fluid	1	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Extract pH	5.66	SW1311	10/31/22 17:00 - 11/01/22	DMP	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:09, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	764	3.0		mg/kg	2380	7439-92-1		

Method: SW6020A, Run Date: 11/01/22 12:38, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	1.72	0.03		mg/L	25	7439-92-1		5.0

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 17:35, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.11
Sample Tag: SB-10-105(8-10)_102122
Collected Date/Time: 10/21/2022 09:05
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:10, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	126	0.30		mg/kg	222	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 17:47, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.12
Sample Tag: SB-10-105(10-12)_102122
Collected Date/Time: 10/21/2022 09:10
Matrix: Soil
COC Reference: 154660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	11/01/22 11:00	CCM	
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Initial Sample pH	8.91	SW1311	10/31/22 17:00 - 11/01/22	DMP	
pH after 3.5 ml HCl	1.90	SW1311	10/31/22 17:00 - 11/01/22	DMP	
% Solids	100	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Sample Used g	40	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Volume mL	800	SW1311	10/31/22 17:00 - 11/01/22	DMP	
TCLP Extraction Fluid	1	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Extract pH	5.29	SW1311	10/31/22 17:00 - 11/01/22	DMP	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:12, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	471	0.30		mg/kg	244	7439-92-1		

Method: SW6020A, Run Date: 11/01/22 12:40, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	6.33	0.03		mg/L	25	7439-92-1	!	5.0

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 18:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

!-Result is outside of stated limit criteria

Lab Sample ID: S41731.13
Sample Tag: SB-10-105(12-14)_102122
Collected Date/Time: 10/21/2022 09:15
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	11/01/22 11:00	CCM	
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Initial Sample pH	8.79	SW1311	10/31/22 17:00 - 11/01/22	DMP	
pH after 3.5 ml HCl	1.83	SW1311	10/31/22 17:00 - 11/01/22	DMP	
% Solids	100	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Sample Used g	40	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Volume mL	800	SW1311	10/31/22 17:00 - 11/01/22	DMP	
TCLP Extraction Fluid	1	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Extract pH	5.34	SW1311	10/31/22 17:00 - 11/01/22	DMP	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	84	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:17, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	262	0.30		mg/kg	265	7439-92-1		

Method: SW6020A, Run Date: 11/01/22 12:42, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	1.03	0.03		mg/L	25	7439-92-1		5.0

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 18:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.14
Sample Tag: SB-10-105(14-16)_102122
Collected Date/Time: 10/21/2022 09:20
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	11/01/22 11:00	CCM	
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Initial Sample pH	9.04	SW1311	10/31/22 17:00 - 11/01/22	DMP	
pH after 3.5 ml HCl	1.90	SW1311	10/31/22 17:00 - 11/01/22	DMP	
% Solids	100	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Sample Used g	40	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Volume mL	800	SW1311	10/31/22 17:00 - 11/01/22	DMP	
TCLP Extraction Fluid	1	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Extract pH	5.65	SW1311	10/31/22 17:00 - 11/01/22	DMP	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	84	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:19, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	616	0.30		mg/kg	254	7439-92-1		

Method: SW6020A, Run Date: 11/01/22 12:44, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	2.28	0.03		mg/L	25	7439-92-1		5.0

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 18:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.15
Sample Tag: SB-10-106(1-3)_102122
Collected Date/Time: 10/21/2022 09:50
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion*	Completed	SW3015A	11/01/22 11:00	CCM	
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

TCLP Extraction

Parameter	Result	Method	Run Date	Analyst	Flags
Initial Sample pH	9.04	SW1311	10/31/22 17:00 - 11/01/22	DMP	
pH after 3.5 ml HCl	1.80	SW1311	10/31/22 17:00 - 11/01/22	DMP	
% Solids	100	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Sample Used g	40	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Volume mL	800	SW1311	10/31/22 17:00 - 11/01/22	DMP	
TCLP Extraction Fluid	1	SW1311	10/31/22 17:00 - 11/01/22	DMP	
Final Extract pH	5.73	SW1311	10/31/22 17:00 - 11/01/22	DMP	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:20, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	502	0.30		mg/kg	251	7439-92-1		

Method: SW6020A, Run Date: 11/01/22 12:46, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead, TCLP	1.74	0.03		mg/L	25	7439-92-1		5.0

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 18:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.16
Sample Tag: SB-10-106(4-6)_102122
Collected Date/Time: 10/21/2022 09:55
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:27, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	15,018	60.0		mg/kg	48600	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 19:01, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.17
Sample Tag: SB-10-106(6-8)_102122
Collected Date/Time: 10/21/2022 10:00
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	95	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:29, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	74.9	0.30		mg/kg	228	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 19:13, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.18
Sample Tag: SB-10-106(8-10)_102122
Collected Date/Time: 10/21/2022 10:05
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:31, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	19.5	0.30		mg/kg	248	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 19:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.19
Sample Tag: SB-10-106(10-12)_102122
Collected Date/Time: 10/21/2022 10:10
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	84	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:32, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	9.00	0.30		mg/kg	243	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 19:37, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.20
Sample Tag: SB-10-106(12-13)_102122
Collected Date/Time: 10/21/2022 10:15
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	84	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:33, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	8.13	0.30		mg/kg	262	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 19:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.21
Sample Tag: SB-10-106(13-14)_102122
Collected Date/Time: 10/21/2022 10:20
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:35, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	13.2	0.30		mg/kg	234	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 20:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.22
Sample Tag: SB-10-106(16-18)_102122
Collected Date/Time: 10/21/2022 10:25
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/25/22 14:00	CCM	
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	85	1		%	1			

Metals

Method: SW6020A, Run Date: 10/25/22 15:13, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	4.41	0.30		mg/kg	245	7439-92-1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 20:14, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.23
Sample Tag: 20-249R(1-2)_102122
Collected Date/Time: 10/21/2022 13:45
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 12:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 20:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.24
Sample Tag: 20-249R(2-4)_102122
Collected Date/Time: 10/21/2022 13:50
Matrix: Soil
COC Reference: 154661

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 20:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.25
Sample Tag: 20-249R(4-6)_102122
Collected Date/Time: 10/21/2022 13:55
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	90	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 20:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.26
Sample Tag: SB-10-107(1-2)_102122
Collected Date/Time: 10/21/2022 13:30
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 21:02, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.27
Sample Tag: SB-10-107(2-4)_102122
Collected Date/Time: 10/21/2022 13:35
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	89	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 21:26, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.28
Sample Tag: SB-10-107(4-6)_102122
Collected Date/Time: 10/21/2022 13:40
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	91	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 21:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.29
Sample Tag: SB-10-109(1-2)_102122
Collected Date/Time: 10/21/2022 14:00
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 21:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.30
Sample Tag: SB-10-109(2-4)_102122
Collected Date/Time: 10/21/2022 14:05
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 22:03, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.31
Sample Tag: SB-10-109(4-6)_102122
Collected Date/Time: 10/21/2022 14:10
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	85	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 22:15, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.32
Sample Tag: SB-10-110(1-2)_102122
Collected Date/Time: 10/21/2022 14:15
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	93	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 22:27, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.33
Sample Tag: SB-10-110(2-4)_102122
Collected Date/Time: 10/21/2022 14:20
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	95	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 22:39, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Lab Sample ID: S41731.34
Sample Tag: SB-10-110(4-6)_102122
Collected Date/Time: 10/21/2022 14:25
Matrix: Soil
COC Reference: 154666

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/24/22 16:00	TAW	

Inorganics

Method: SM2540B, Run Date: 10/24/22 15:30, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	96	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/25/22 22:51, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		

Merit Laboratories Login Checklist

Lab Set ID: S41731
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: RACER Buick City
Submitted: 10/21/2022 15:50 Login User: MMC

Attention: Erin Kozak
Address: Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 2.4
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
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C.O.C. PAGE # _____ OF _____ 154660

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Joey Barker, M. Maki, E Kozak, M Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 CELL NO.: P.O. NO.: 30121887.01908
E-MAIL ADDRESS: joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: RACER BUICK CITY
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olenderlee

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint, MI
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	lead (total)	Special Instructions
41731.01	10/20/22	1515	20-210R2(1-2)_102022	S	1	X							X	~~X~~ MS	hold remainder for possible lead TCLP
.02		1530	SB10-123(1-2)_102022												
.03		1535	SB-10-123(7.5-9.5)_102022												
.04		1540	SB-10-123(9.5-11.5)_102022												
.05		1555	SB-10-126(0-2)_102022												
.06		1600	SB-10-126(7.5-9.5)_102022												
.07		1605	SB-10-126(9.5-11.5)_102022												
.08	10/21/22	0850	SB-10-105(1-3)_102122											X	
.09		0855	SB-10-105(4-6)_102122												
.10		0900	SB-10-105(6-8)_102122												
.11		0905	SB-10-105(8-10)_102122												
.12		0910	SB-10-105(10-12)_102122												

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Arcadis ☒ Sampler	DATE 10/21/22	TIME 1455
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10/21/22	TIME 14:55
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 10/21/22	TIME 15:50
RECEIVED BY: SIGNATURE/ORGANIZATION	M Allcott	DATE 10/21/22	TIME 1550

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 2.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.26.22

Merit Laboratories, Inc.

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C.O.C. PAGE # _____ OF _____ 154661

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: J. Barker, M Maki, E Kozak, M Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-790-5218 CELL NO.: P.O. NO.: 30121887-01908
E-MAIL ADDRESS: Joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: RATER BUICK CITY
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☐ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☒ Other Flint
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs	lead (total)	Special Instructions
4173 1.13	10/21/22	0915	SB-10-105(12-14)_102122	S	1	X							X	X	hold remainder for possible lead TCLP
.14		0920	SB-10-105(14-16)_102122												
.15		0950	SB-10-106(1-3)_102122												
.16		0955	SB-10-106(4-6)_102122												
.17		1000	SB-10-106(6-8)_102122												
.18		1005	SB-10-106(8-10)_102122												
.19		1010	SB-10-106(10-12)_102122												
.20		1015	SB-10-106(12-13)_102122												
.21		1020	SB-10-106(13-14)_102122												
.22		1025	SB-10-106(16-18)_102122												
.23		~~1330~~ 1345	20-249RZ(1-2)_102122												
.24		~~1350~~ 1350	20-249RZ(2-4)_102122												

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
	Arcadis ☒ Sampler	10/21/22	1455
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
		10/21/22	1455
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
		10/21/22	1515
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
		10/21/22	1550

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 2.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.26.22

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C.O.C. PAGE # _____ OF _____ 154666

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Arcadis - J. Parker, M Maki, E Kozak, M Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr #500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO: 248-790-5218 CELL NO.: P.O. NO.: 30121837.01908
E-MAIL ADDRESS: joey.barker@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: RACER Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Madison Olender

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other _____
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
41731.25	10/21/22	1355	20-249R2(4-6)_102122	S	1	X							X
.26		1330	SB-10-107(1-2)_102122										
.27		1335	SB-10-107(2-4)_102122										
.28		1340	SB-10-107(4-6)_102122										
			~~SB-10-108(1-2)_102122 NO~~										
			~~SB-10-108(2-4)_102122 NO~~										
			~~SB-10-108(4-6)_102122 NO~~										
29		1400	SB-10-109(1-2)_102122										
.30		1405	SB-10-109(2-4)_102122										
.31		1410	SB-10-109(4-6)_102122										
.32		1415	SB-10-110(1-2)_102122										
.33		1420	SB-10-110(2-4)_102122										
.34		1425	SB-10-110(4-6)_102122										

	SIGNATURE/ORGANIZATION	DATE	TIME
RELINQUISHED BY:	Arcadis	10/21/22	1455
RECEIVED BY:		10/21/22	1435
RELINQUISHED BY:		10/21/22	1515
RECEIVED BY:		10/21/22	1550

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 2.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.26.22

Analytical Laboratory Report

Report ID: S44744.01(01)
Generated on 02/01/2023

Report to

Attention: Erin Kozak
Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Addtional Contacts: Megan Humphrey, Deb Newcom, Tony Maffeo

Report produced by

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Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S44744.01-S44744.06
Project: 30121887.01934 Racer Buick City
Collected Date(s): 01/25/2023 - 01/26/2023
Submitted Date/Time: 01/26/2023 14:00
Sampled by: B. Lawrence
P.O. #: 30121887.01934

Table of Contents

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Maya Murshak
Technical Director

Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Analytical Laboratory Report

Sample Summary (6 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S44744.01	Bob2-SurfaceWipe-1(012523)	Wipe	01/25/23 14:00
S44744.02	Bob2-SurfaceWipe-2(012523)	Wipe	01/25/23 14:25
S44744.03	Bob2-SurfaceWipe-3(012523)	Wipe	01/25/23 14:45
S44744.04	Bob2-SurfaceWipe-4(012523)	Wipe	01/25/23 15:05
S44744.05	Bob2-SurfaceWipe-5(012523)	Wipe	01/25/23 15:30
S44744.06	Bob2-SurfaceWipe-6(012623)	Wipe	01/26/23 08:30

Analytical Laboratory Report

Lab Sample ID: S44744.01
Sample Tag: Bob2-SurfaceWipe-1(012523)
Collected Date/Time: 01/25/2023 14:00
Matrix: Wipe
COC Reference: BC0126023.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	Hexane	Yes	4.5	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3550C	01/31/23 10:30	JWR	

Organics - PCBs/Pesticides

PCB Swab List, Method: SW8082A, Run Date: 02/01/23 14:01, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016*	Not detected	3		ug/100cm2	30	12674-11-2	Y
PCB-1221*	Not detected	3		ug/100cm2	30	11104-28-2	Y
PCB-1232*	Not detected	3		ug/100cm2	30	11141-16-5	Y
PCB-1242*	17	3		ug/100cm2	30	53469-21-9	Y
PCB-1248*	Not detected	3		ug/100cm2	30	12672-29-6	Y
PCB-1254*	7	3		ug/100cm2	30	11097-69-1	Y
PCB-1260*	Not detected	3		ug/100cm2	30	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S44744.02
Sample Tag: Bob2-SurfaceWipe-2(012523)
Collected Date/Time: 01/25/2023 14:25
Matrix: Wipe
COC Reference: BC0126023.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	Hexane	Yes	4.5	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3550C	01/31/23 10:30	JWR	

Organics - PCBs/Pesticides

PCB Swab List, Method: SW8082A, Run Date: 02/01/23 14:13, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016*	Not detected	3		ug/100cm2	30	12674-11-2	Y
PCB-1221*	Not detected	3		ug/100cm2	30	11104-28-2	Y
PCB-1232*	Not detected	3		ug/100cm2	30	11141-16-5	Y
PCB-1242*	8	3		ug/100cm2	30	53469-21-9	Y
PCB-1248*	Not detected	3		ug/100cm2	30	12672-29-6	Y
PCB-1254*	3	3		ug/100cm2	30	11097-69-1	Y
PCB-1260*	Not detected	3		ug/100cm2	30	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S44744.03
Sample Tag: Bob2-SurfaceWipe-3(012523)
Collected Date/Time: 01/25/2023 14:45
Matrix: Wipe
COC Reference: BC0126023.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	Hexane	Yes	4.5	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3550C	01/31/23 10:30	JWR	

Organics - PCBs/Pesticides

PCB Swab List, Method: SW8082A, Run Date: 02/01/23 13:28, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016*	Not detected	1		ug/100cm2	10	12674-11-2	
PCB-1221*	Not detected	1		ug/100cm2	10	11104-28-2	
PCB-1232*	Not detected	1		ug/100cm2	10	11141-16-5	
PCB-1242*	2	1		ug/100cm2	10	53469-21-9	
PCB-1248*	Not detected	1		ug/100cm2	10	12672-29-6	
PCB-1254*	1	1		ug/100cm2	10	11097-69-1	
PCB-1260*	Not detected	1		ug/100cm2	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S44744.04
Sample Tag: Bob2-SurfaceWipe-4(012523)
Collected Date/Time: 01/25/2023 15:05
Matrix: Wipe
COC Reference: BC0126023.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	Hexane	Yes	4.5	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3550C	01/31/23 10:30	JWR	

Organics - PCBs/Pesticides

PCB Swab List, Method: SW8082A, Run Date: 02/01/23 13:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016*	Not detected	1		ug/100cm2	10	12674-11-2	
PCB-1221*	Not detected	1		ug/100cm2	10	11104-28-2	
PCB-1232*	Not detected	1		ug/100cm2	10	11141-16-5	
PCB-1242*	4.5	1		ug/100cm2	10	53469-21-9	
PCB-1248*	Not detected	1		ug/100cm2	10	12672-29-6	
PCB-1254*	1.9	1		ug/100cm2	10	11097-69-1	
PCB-1260*	Not detected	1		ug/100cm2	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S44744.05
Sample Tag: Bob2-SurfaceWipe-5(012523)
Collected Date/Time: 01/25/2023 15:30
Matrix: Wipe
COC Reference: BC0126023.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	Hexane	Yes	4.5	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3550C	01/31/23 10:30	JWR	

Organics - PCBs/Pesticides

PCB Swab List, Method: SW8082A, Run Date: 02/01/23 14:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016*	Not detected	3		ug/100cm2	30	12674-11-2	Y
PCB-1221*	Not detected	3		ug/100cm2	30	11104-28-2	Y
PCB-1232*	Not detected	3		ug/100cm2	30	11141-16-5	Y
PCB-1242*	18	3		ug/100cm2	30	53469-21-9	Y
PCB-1248*	Not detected	3		ug/100cm2	30	12672-29-6	Y
PCB-1254*	6	3		ug/100cm2	30	11097-69-1	Y
PCB-1260*	Not detected	3		ug/100cm2	30	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S44744.06
Sample Tag: Bob2-SurfaceWipe-6(012623)
Collected Date/Time: 01/26/2023 08:30
Matrix: Wipe
COC Reference: BC0126023.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	Hexane	Yes	4.5	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3550C	01/31/23 10:30	JWR	

Organics - PCBs/Pesticides

PCB Swab List, Method: SW8082A, Run Date: 01/31/23 15:20, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016*	Not detected	1		ug/100cm2	1	12674-11-2	
PCB-1221*	Not detected	1		ug/100cm2	1	11104-28-2	
PCB-1232*	Not detected	1		ug/100cm2	1	11141-16-5	
PCB-1242*	Not detected	1		ug/100cm2	1	53469-21-9	
PCB-1248*	Not detected	1		ug/100cm2	1	12672-29-6	
PCB-1254*	Not detected	1		ug/100cm2	1	11097-69-1	
PCB-1260*	Not detected	1		ug/100cm2	1	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S44744
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30121887.01934 Racer Buick City
Submitted: 01/26/2023 14:00 Login User: MMC

Attention: Erin Kozak
Address: Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: O: 810-225-1901 FAX:
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.5
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. Page # 1 of 1 C.O.C I.D.# BC0126023.1

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Erin Kozak, D.Newcom, T. Maffeo, & Megan Humphrey
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2314 | FAX NO.: 248.994.2241 | P.O. NO.: ARCADIS WA#226
EMAIL ADDRESS: erin.kozak@arcadis.com; deborah.newcom@arcadis.com; tony.maffeo@arcadis.com; megan.humphrey@arcadis.com
QUOTE NO.: ARCADIS WA#226

INVOICE TO

CONTACT NAME: Erin Kozak ☐ SAME
COMPANY:
ADDRESS:
CITY | STATE | ZIP CODE
PHONE NO. | EMAIL ADDRESS

PROJECT NO./NAME: 30211887.01934 Racer Buick City
SAMPLER(S) - PLEASE PRINT / SIGN NAME: B. Lawrence

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Code: GW=Groundwater; WW=Waste Water; S=Soil; L=Liquid; SD=Solid; SL=Sludge; DW=Drinking Water; O=Oil; A=Air; W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	Total PCB's
44744.01	1/25/2023	1400	Bob2-SurfaceWipe-1(012523)	SW	1							1	X
.02	1/25/2023	1425	Bob2-SurfaceWipe-2(012523)	SW	1							1	X
.03	1/25/2023	1445	Bob2-SurfaceWipe-3(012523)	SW	1							1	X
.04	1/25/2023	1505	Bob2-SurfaceWipe-4(012523)	SW	1							1	X
.05	1/25/2023	1530	Bob2-SurfaceWipe-5(012523)	SW	1							1	X
.06	1/26/2023	0830	Bob2-SurfaceWipe-6(012623)	SW	1							1	X

Relinquished By: Signature/Organization: Ben Lawrence ☑ Sampler — Date: 1/26/23 — Time: 12:00

Recieved By: Signature/Organization: — Date: 1/26/23 — Time: 12:00

Relinquished By: Signature/Organization: — Date: 1/26/23 — Time: 1400

Recieved By: Signature/Organization: — Date: 1/26/23 — Time: 1400

Relinquished By: Signature/Organization: — Date: — Time:

Recieved By: Signature/Organization: — Date: — Time:

Seal No. | Seal Intact ☐ Yes ☐ No | Initals

Seal No. | Seal Intact ☐ Yes ☐ No | Initals

Notes: Temp. on arrival: 4.5

Analytical Laboratory Report

Report ID: S57921.01(01)
Generated on 09/06/2013

Report to

Attention: Micki Maki
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 248-994-2314 FAX: 810-229-8837
Email: micki.maki@arcadis-us.com

Addtional Contacts: Erin Kozak

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Tabitha Faust (tfaust@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S57921.01-S57921.15
Project: B0064410.2013.00206 / Buick City
Collected Date: 09/03/2013 - 09/04/2013
Submitted Date/Time: 09/04/2013 14:15
Sampled by: DShaw/ ASkwarski
P.O. #: B0064410.2013.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (15 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S57921.01	SB-05-05 (1-3')	Soil	09/03/2013 11:15
S57921.02	SB-05-05 (4-6')	Soil	09/03/2013 11:20
S57921.03	SB-05-05 (6-8')	Soil	09/03/2013 11:25
S57921.04	SB-05-05 (8-10')	Soil	09/03/2013 11:30
S57921.05	SB-05-05 (10-12')	Soil	09/03/2013 11:35
S57921.06	SB-05-05 (12-14')	Soil	09/03/2013 11:40
S57921.07	SB-05-05 (14-16')	Soil	09/03/2013 11:45
S57921.08	SB-05-06 (1-3')	Soil	09/03/2013 13:50
S57921.09	SB-05-06 (3-5')	Soil	09/03/2013 13:55
S57921.10	SB-05-06 (5-7')	Soil	09/03/2013 14:00
S57921.11	SB-05-14 (1-3')	Soil	09/03/2013 14:50
S57921.12	SB-05-14 (3-5')	Soil	09/03/2013 15:00
S57921.13	SB-05-09 (1-3')	Soil	09/03/2013 16:30
S57921.14	SB-10-05 (1-3')	Soil	09/04/2013 09:50
S57921.15	SB-10-05 (4-6')	Soil	09/04/2013 09:55

Analytical Laboratory Report

Lab Sample ID: S57921.01
Sample Tag: SB-05-05 (1-3')
Collected Date/Time: 09/03/2013 11:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	93	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 16:58	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 16:58	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 16:58	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 16:58	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 16:58	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 16:58	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 16:58	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57921.02
Sample Tag: SB-05-05 (4-6')
Collected Date/Time: 09/03/2013 11:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	89	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 17:09	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 17:09	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 17:09	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 17:09	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 17:09	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 17:09	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 17:09	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57921.03
Sample Tag: SB-05-05 (6-8')
Collected Date/Time: 09/03/2013 11:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 17:19	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 17:19	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 17:19	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 17:19	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 17:19	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 17:19	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 17:19	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57921.04
Sample Tag: SB-05-05 (8-10')
Collected Date/Time: 09/03/2013 11:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 17:30	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 17:30	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 17:30	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 17:30	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 17:30	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 17:30	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 17:30	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57921.05
Sample Tag: SB-05-05 (10-12')
Collected Date/Time: 09/03/2013 11:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/06/13 14:50	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/06/13 14:50	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/06/13 14:50	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/06/13 14:50	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/06/13 14:50	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/06/13 14:50	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/06/13 14:50	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57921.06
Sample Tag: SB-05-05 (12-14')
Collected Date/Time: 09/03/2013 11:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 17:51	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 17:51	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 17:51	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 17:51	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 17:51	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 17:51	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 17:51	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57921.07
Sample Tag: SB-05-05 (14-16')
Collected Date/Time: 09/03/2013 11:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 18:02	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 18:02	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 18:02	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 18:02	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 18:02	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 18:02	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 18:02	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57921.08
Sample Tag: SB-05-06 (1-3')
Collected Date/Time: 09/03/2013 13:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	88	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 18:12	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 18:12	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 18:12	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 18:12	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 18:12	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 18:12	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 18:12	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57921.09
Sample Tag: SB-05-06 (3-5')
Collected Date/Time: 09/03/2013 13:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	77	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 18:23	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 18:23	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 18:23	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 18:23	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 18:23	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 18:23	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 18:23	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57921.10
Sample Tag: SB-05-06 (5-7')
Collected Date/Time: 09/03/2013 14:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 18:44	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 18:44	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 18:44	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 18:44	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 18:44	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 18:44	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 18:44	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57921.11
Sample Tag: SB-05-14 (1-3')
Collected Date/Time: 09/03/2013 14:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 18:55	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 18:55	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 18:55	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 18:55	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 18:55	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 18:55	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 18:55	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57921.12
Sample Tag: SB-05-14 (3-5')
Collected Date/Time: 09/03/2013 15:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/06/13 15:03	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/06/13 15:03	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/06/13 15:03	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/06/13 15:03	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/06/13 15:03	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/06/13 15:03	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/06/13 15:03	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57921.13
Sample Tag: SB-05-09 (1-3')
Collected Date/Time: 09/03/2013 16:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	92	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/06/13 14:39	JAN	12674-11-2	
PCB-1242	1,000	ug/kg	330	SW8082A	09/06/13 14:39	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/06/13 14:39	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/06/13 14:39	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/06/13 14:39	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/06/13 14:39	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/06/13 14:39	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57921.14
Sample Tag: SB-10-05 (1-3')
Collected Date/Time: 09/04/2013 09:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 15:48	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 15:48	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 15:48	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 15:48	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 15:48	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 15:48	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 15:48	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57921.15
Sample Tag: SB-10-05 (4-6')
Collected Date/Time: 09/04/2013 09:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	89	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 16:23	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 16:23	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 16:23	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 16:23	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 16:23	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 16:23	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 16:23	JAN	11096-82-5	

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name RACER B0064410.2013.00206

Project Location Buick City

Laboratory Merit

Project Manager Micki Maki

Sampler(s)/Affiliation Drew Shaw/Alison Stwarski ARCADIS

57921	Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: PCBs						Remarks	Total
.01	SB-05-05 (1-3')	S	9/3/13 1115		1						4 oz. jar	
.02	SB-05-05 (4-6')		1120									
.03	SB-05-05 (6-8")		1125									
.04	SB-05-05 (8-10')		1130									
.05	SB-05-05 (10-12')		1135									
.06	SB-05-05 (12-14')		1140									
.07	SB-05-05 (14-16')		1145									
.08	SB-05-06 (1-3')	S	9/3/13 1350									
.09	SB-05-06 (3-5')		1355									
.10	SB-05-06 (5-7')		1400									
.11	SB-05-14 (1-3')		1450									
.12	SB-05-14 (3-5')		1500									
.13	SB-05-09 (1-3')		1630									
.14	SB-10-05 (1-3')		9/4/13 950								8 oz	
.15	SB-10-05 (4-6')		955									

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers

Relinquished by:		Organization: ARCADIS	Date 9/4/13	Time 1205	Seal Intact?	
Received by:		Organization: Merit	Date 9/4/13	Time 1205	Yes No N/A	
Relinquished by:		Organization: Merit	Date 9/4/13	Time 1415	Seal Intact?	
Received by:		Organization: Merit	Date 9/4/13	Time 1415	Yes No N/A	

Special Instructions/Remarks: _____

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other Cooler at 5.5°C SPECIFY

AG 05-12/01

Analytical Laboratory Report

Report ID: S57922.01(01)
Generated on 09/06/2013

Report to

Attention: Micki Maki
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 248-994-2240 FAX: 248-994-2241
Email: micki.maki@arcadis-us.com

Addtional Contacts: Erin Kozak

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Tabitha Faust (tfaust@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S57922.01-S57922.12
Project: B0064410.2013.00206
Collected Date: 09/04/2013
Submitted Date/Time: 09/04/2013 14:15
Sampled by: DShaw/ ASkwarski
P.O. #: B0064410.2013.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (12 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S57922.01	SB-10-05 (6-8')	Soil	09/04/2013 10:00
S57922.02	SB-10-05 (8-10')	Soil	09/04/2013 10:05
S57922.03	SB-10-05 (10-12')	Soil	09/04/2013 10:10
S57922.04	SB-10-05 (12-14')	Soil	09/04/2013 10:15
S57922.05	SB-10-05 (14-16')	Soil	09/04/2013 10:20
S57922.06	SB-10-06 (1-3')	Soil	09/04/2013 11:05
S57922.07	SB-10-06 (4-6')	Soil	09/04/2013 11:10
S57922.08	SB-10-06 (6-8')	Soil	09/04/2013 11:15
S57922.09	SB-10-06 (8-10')	Soil	09/04/2013 11:20
S57922.10	SB-10-06 (10-12')	Soil	09/04/2013 11:25
S57922.11	SB-10-06 (12-14')	Soil	09/04/2013 11:30
S57922.12	SB-10-06 (14-16')	Soil	09/04/2013 11:35

Analytical Laboratory Report

Lab Sample ID: S57922.01
Sample Tag: SB-10-05 (6-8')
Collected Date/Time: 09/04/2013 10:00
Matrix: Soil
COC Reference: 74659

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	94	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 19:16	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 19:16	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 19:16	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 19:16	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 19:16	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 19:16	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 19:16	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57922.02
Sample Tag: SB-10-05 (8-10')
Collected Date/Time: 09/04/2013 10:05
Matrix: Soil
COC Reference: 74659

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 19:37	JAN	12674-11-2	
PCB-1242	900	ug/kg	330	SW8082A	09/05/13 19:37	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 19:37	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 19:37	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 19:37	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 19:37	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 19:37	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57922.03
Sample Tag: SB-10-05 (10-12')
Collected Date/Time: 09/04/2013 10:10
Matrix: Soil
COC Reference: 74659

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 19:48	JAN	12674-11-2	
PCB-1242	1,500	ug/kg	330	SW8082A	09/05/13 19:48	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 19:48	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 19:48	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 19:48	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 19:48	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 19:48	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57922.04
Sample Tag: SB-10-05 (12-14')
Collected Date/Time: 09/04/2013 10:15
Matrix: Soil
COC Reference: 74659

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 20:18	JAN	12674-11-2	
PCB-1242	700	ug/kg	330	SW8082A	09/05/13 20:18	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 20:18	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 20:18	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 20:18	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 20:18	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 20:18	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57922.05
Sample Tag: SB-10-05 (14-16')
Collected Date/Time: 09/04/2013 10:20
Matrix: Soil
COC Reference: 74659

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 20:28	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 20:28	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 20:28	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 20:28	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 20:28	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 20:28	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 20:28	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57922.06
Sample Tag: SB-10-06 (1-3')
Collected Date/Time: 09/04/2013 11:05
Matrix: Soil
COC Reference: 74659

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 20:44	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 20:44	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 20:44	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 20:44	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 20:44	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 20:44	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 20:44	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57922.07
Sample Tag: SB-10-06 (4-6')
Collected Date/Time: 09/04/2013 11:10
Matrix: Soil
COC Reference: 74659

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	69	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 20:57	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 20:57	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 20:57	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 20:57	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 20:57	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 20:57	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 20:57	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57922.08
Sample Tag: SB-10-06 (6-8')
Collected Date/Time: 09/04/2013 11:15
Matrix: Soil
COC Reference: 74659

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 21:09	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 21:09	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 21:09	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 21:09	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 21:09	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 21:09	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 21:09	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57922.09
Sample Tag: SB-10-06 (8-10')
Collected Date/Time: 09/04/2013 11:20
Matrix: Soil
COC Reference: 74659

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 21:19	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 21:19	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 21:19	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 21:19	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 21:19	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 21:19	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 21:19	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57922.10
Sample Tag: SB-10-06 (10-12')
Collected Date/Time: 09/04/2013 11:25
Matrix: Soil
COC Reference: 74659

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	94	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/05/13 21:30	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/05/13 21:30	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/05/13 21:30	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/05/13 21:30	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/05/13 21:30	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/05/13 21:30	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/05/13 21:30	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57922.11
Sample Tag: SB-10-06 (12-14')
Collected Date/Time: 09/04/2013 11:30
Matrix: Soil
COC Reference: 74659

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/06/13 15:14	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/06/13 15:14	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/06/13 15:14	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/06/13 15:14	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/06/13 15:14	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/06/13 15:14	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/06/13 15:14	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57922.12
Sample Tag: SB-10-06 (14-16')
Collected Date/Time: 09/04/2013 11:35
Matrix: Soil
COC Reference: 74659

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/05/13 15:43	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	09/05/13 12:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/06/13 15:25	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/06/13 15:25	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/06/13 15:25	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/06/13 15:25	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/06/13 15:25	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/06/13 15:25	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/06/13 15:25	JAN	11096-82-5	

Merit Laboratories, Inc.

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www.meritlabs.com

C.O.C. PAGE # _____ OF _____

74659

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki / Annee Freeman
COMPANY: ARCADIS
ADDRESS: 28550 Cabot Dr Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248 994 2240 FAX NO.: 248 994 2241
E-MAIL ADDRESS: micki.maki@arcadis-us.com
P.O. NO.:
QUOTE NO.:

INVOICE TO

CONTACT NAME: X SAME
COMPANY: ARCADIS
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: B0064410.2013.00206
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Drew Shaw / Alison Skwarski

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other _____

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
57922.01	9/4/13	1000	SB-10-05 (6-8')	S	1	X							X
.02		1005	SB-10-05 (8-10')										
.03		1010	SB-10-05 (10-12')										
.04		1015	SB-10-05 (12-14')										
.05		1020	SB-10-05 (14-16')										
.06		1105	SB-10-06 (1-3')										
.07		1110	SB-10-06 (4-6')										
.08		1115	SB-10-06 (6-8')										
.09		1120	SB-10-06 (8-10')										
.10		1125	SB-10-06 (10-12')										
.11		1130	SB-10-06 (12-14')										
.12		1135	SB-10-06 (14-16')										

RELINQUISHED BY: SIGNATURE/ORGANIZATION	X Sampler	DATE 9/4/13	TIME 1205
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 9-4-13	TIME 1205
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 9-4-13	TIME 1745
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 5.5

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S57956.01(01)
Generated on 09/11/2013

Report to

Attention: Micki Maki
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 248-994-2240 FAX: 248-994-2241
Email: micki.maki@arcadis-us.com

Addtional Contacts: Erin Kozak

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Tabitha Faust (tfaust@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S57956.01-S57956.14
Project: B0064410.2013.00206
Collected Date: 09/04/2013
Submitted Date/Time: 09/05/2013 15:45
Sampled by: DShaw/ ASkwarski
P.O. #: B0064410.2013.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (14 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S57956.01	SB-10-07 (1-3')	Soil	09/04/2013 13:05
S57956.02	SB-10-07 (4-6')	Soil	09/04/2013 13:10
S57956.03	SB-10-07 (6-8')	Soil	09/04/2013 13:15
S57956.04	SB-10-07 (8-10')	Soil	09/04/2013 13:20
S57956.05	SB-10-07 (10-12')	Soil	09/04/2013 13:25
S57956.06	SB-10-07 (12-14')	Soil	09/04/2013 13:30
S57956.07	SB-10-08 (1-3')	Soil	09/04/2013 14:25
S57956.08	SB-10-08 (4-6')	Soil	09/04/2013 14:30
S57956.09	SB-10-08 (6-8')	Soil	09/04/2013 14:35
S57956.10	SB-10-08 (8-10')	Soil	09/04/2013 14:40
S57956.11	SB-10-08 (10-12')	Soil	09/04/2013 14:45
S57956.12	SB-10-08 (12-14')	Soil	09/04/2013 14:50
S57956.13	SB-10-08 (14-16')	Soil	09/04/2013 15:20
S57956.14	SB-10-08 (16-18')	Soil	09/04/2013 15:25

Analytical Laboratory Report

Lab Sample ID: S57956.01
Sample Tag: SB-10-07 (1-3')
Collected Date/Time: 09/04/2013 13:05
Matrix: Soil
COC Reference: 74660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/09/13 17:36	RGS		
Inorganics								
Total Solids	94	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/10/13 14:25	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/10/13 14:25	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/10/13 14:25	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/10/13 14:25	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/10/13 14:25	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/10/13 14:25	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/10/13 14:25	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57956.02
Sample Tag: SB-10-07 (4-6')
Collected Date/Time: 09/04/2013 13:10
Matrix: Soil
COC Reference: 74660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/09/13 17:36	RGS		
Inorganics								
Total Solids	93	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/10/13 14:35	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/10/13 14:35	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/10/13 14:35	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/10/13 14:35	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/10/13 14:35	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/10/13 14:35	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/10/13 14:35	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57956.03
Sample Tag: SB-10-07 (6-8')
Collected Date/Time: 09/04/2013 13:15
Matrix: Soil
COC Reference: 74660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/09/13 17:36	RGS		
Inorganics								
Total Solids	93	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/10/13 14:46	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/10/13 14:46	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/10/13 14:46	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/10/13 14:46	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/10/13 14:46	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/10/13 14:46	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/10/13 14:46	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57956.04
Sample Tag: SB-10-07 (8-10')
Collected Date/Time: 09/04/2013 13:20
Matrix: Soil
COC Reference: 74660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/09/13 17:36	RGS		
Inorganics								
Total Solids	94	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/11/13 13:05	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/11/13 13:05	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/11/13 13:05	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/11/13 13:05	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/11/13 13:05	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/11/13 13:05	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/11/13 13:05	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57956.05
Sample Tag: SB-10-07 (10-12')
Collected Date/Time: 09/04/2013 13:25
Matrix: Soil
COC Reference: 74660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/09/13 17:36	RGS		
Inorganics								
Total Solids	94	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/10/13 14:56	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/10/13 14:56	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/10/13 14:56	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/10/13 14:56	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/10/13 14:56	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/10/13 14:56	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/10/13 14:56	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57956.06
Sample Tag: SB-10-07 (12-14')
Collected Date/Time: 09/04/2013 13:30
Matrix: Soil
COC Reference: 74660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/09/13 17:36	RGS		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/11/13 13:15	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/11/13 13:15	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/11/13 13:15	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/11/13 13:15	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/11/13 13:15	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/11/13 13:15	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/11/13 13:15	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57956.07
Sample Tag: SB-10-08 (1-3')
Collected Date/Time: 09/04/2013 14:25
Matrix: Soil
COC Reference: 74660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/09/13 17:36	RGS		
Inorganics								
Total Solids	93	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/10/13 15:07	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/10/13 15:07	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/10/13 15:07	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/10/13 15:07	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/10/13 15:07	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/10/13 15:07	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/10/13 15:07	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57956.08
Sample Tag: SB-10-08 (4-6')
Collected Date/Time: 09/04/2013 14:30
Matrix: Soil
COC Reference: 74660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/09/13 17:36	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	3,000	SW8082A	09/10/13 13:48	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	3,000	SW8082A	09/10/13 13:48	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	3,000	SW8082A	09/10/13 13:48	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	3,000	SW8082A	09/10/13 13:48	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	3,000	SW8082A	09/10/13 13:48	JAN	12672-29-6	Y
PCB-1254	21,000	ug/kg	3,000	SW8082A	09/10/13 13:48	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	3,000	SW8082A	09/10/13 13:48	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S57956.09
Sample Tag: SB-10-08 (6-8')
Collected Date/Time: 09/04/2013 14:35
Matrix: Soil
COC Reference: 74660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/09/13 17:36	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	6,000	SW8082A	09/10/13 14:34	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	6,000	SW8082A	09/10/13 14:34	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	6,000	SW8082A	09/10/13 14:34	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	6,000	SW8082A	09/10/13 14:34	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	6,000	SW8082A	09/10/13 14:34	JAN	12672-29-6	Y
PCB-1254	42,000	ug/kg	6,000	SW8082A	09/10/13 14:34	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	6,000	SW8082A	09/10/13 14:34	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S57956.10
Sample Tag: SB-10-08 (8-10')
Collected Date/Time: 09/04/2013 14:40
Matrix: Soil
COC Reference: 74660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/09/13 17:36	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	6,000	SW8082A	09/10/13 14:46	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	6,000	SW8082A	09/10/13 14:46	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	6,000	SW8082A	09/10/13 14:46	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	6,000	SW8082A	09/10/13 14:46	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	6,000	SW8082A	09/10/13 14:46	JAN	12672-29-6	Y
PCB-1254	47,000	ug/kg	6,000	SW8082A	09/10/13 14:46	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	6,000	SW8082A	09/10/13 14:46	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S57956.11
Sample Tag: SB-10-08 (10-12')
Collected Date/Time: 09/04/2013 14:45
Matrix: Soil
COC Reference: 74660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/09/13 17:36	RGS		
Inorganics								
Total Solids	78	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/10/13 15:25	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/10/13 15:25	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/10/13 15:25	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/10/13 15:25	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/10/13 15:25	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/10/13 15:25	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/10/13 15:25	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57956.12
Sample Tag: SB-10-08 (12-14')
Collected Date/Time: 09/04/2013 14:50
Matrix: Soil
COC Reference: 74660

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/09/13 17:36	RGS		
Inorganics								
Total Solids	79	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/10/13 15:35	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/10/13 15:35	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/10/13 15:35	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/10/13 15:35	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/10/13 15:35	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/10/13 15:35	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/10/13 15:35	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57956.13
Sample Tag: SB-10-08 (14-16')
Collected Date/Time: 09/04/2013 15:20
Matrix: Soil
COC Reference: 74658

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/09/13 17:36	RGS		
Inorganics								
Total Solids	79	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/10/13 15:17	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/10/13 15:17	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/10/13 15:17	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/10/13 15:17	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/10/13 15:17	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/10/13 15:17	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/10/13 15:17	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57956.14
Sample Tag: SB-10-08 (16-18')
Collected Date/Time: 09/04/2013 15:25
Matrix: Soil
COC Reference: 74658

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/09/13 17:36	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/10/13 15:46	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/10/13 15:46	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/10/13 15:46	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/10/13 15:46	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/10/13 15:46	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/10/13 15:46	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/10/13 15:46	JAN	11096-82-5	

Merit Laboratories, Inc.

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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF _____

74660

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki / Amee Freeman
COMPANY: ARCADIS
ADDRESS: 28550 Cabot Dr Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO: 248-994-2240 FAX NO: 248-994-2241 P.O. NO.:
E-MAIL ADDRESS: micki.maki@arcadis-us.com QUOTE NO.:

INVOICE TO

CONTACT NAME: X SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: B0064410.2013.00206
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Drew Shaw / Alison Stwarski

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other _____

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
57956.01	9/4/13	1305	SB-10-07 (1-3')	S	1	X							X
.02		1310	SB-10-07 (4-6')										
.03		1315	SB-10-07 (6-8')										
.04		1320	SB-10-07 (8-10')										
.05		1325	SB-10-07 (10-12')										
.06		1330	SB-10-07 (12-14')										
.07		1425	SB-10-08 (1-3')										
.08		1430	SB-10-08 (4-6')										
.09		1435	SB-10-08 (6-8')										
.10		1440	SB-10-08 (8-10')										
.11		1445	SB-10-08 (10-12')										
.12		1450	SB-10-08 (12-14')										

RELINQUISHED BY: SIGNATURE/ORGANIZATION	X Sampler	DATE 9/5/13	TIME 1351
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 9-5-13	TIME 1351
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 9-5-13	TIME 1545
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 9/5/13	TIME 15.45

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 5.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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C.O.C. PAGE # 2 OF _____

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CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: See page 1
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other _____

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCBs
5795613	9/4/13	1525	SB-10-08 (14-16')	S	1	X							X
.14	↓	1525	SB-10-08 (16-18')	↓	↓	↓							↓

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE 9/5/13	TIME 1351
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 9-5-13	TIME 1357
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 9-5-13	TIME 1545
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 9/5/13	TIME 15:45
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

NOTES: TEMP. ON ARRIVAL 5.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S57975.01(01)
Generated on 09/12/2013

Report to

Attention: Micki Maki
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 248-994-2240 FAX: 248-994-2241
Email: micki.maki@arcadis-us.com

Addtional Contacts: Erin Kozak

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Tabitha Faust (tfaust@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S57975.01-S57975.13
Project: B0064410.2013.00206 Buick City
Collected Date: 09/06/2013
Submitted Date/Time: 09/06/2013 15:00
Sampled by: Drew Shaw
P.O. #: B0064410.2013.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (13 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S57975.01	SB-05-07 (1-3)	Soil	09/06/2013 09:40
S57975.02	SB-05-07 (3-5)	Soil	09/06/2013 09:45
S57975.03	SB-05-07 (5-7)	Soil	09/06/2013 09:50
S57975.04	SB-05-07 (7-9)	Soil	09/06/2013 09:55
S57975.05	SB-05-07 (9-11)	Soil	09/06/2013 10:00
S57975.06	SB-05-07 (11-13)	Soil	09/06/2013 10:05
S57975.07	SB-05-07 (13-15)	Soil	09/06/2013 10:10
S57975.08	SB-05-08 (1-3)	Soil	09/06/2013 10:50
S57975.09	SB-05-08 (5-7)	Soil	09/06/2013 10:55
S57975.10	SB-05-08 (7-9)	Soil	09/06/2013 11:00
S57975.11	SB-05-08 (9-11)	Soil	09/06/2013 11:05
S57975.12	SB-05-08 (11-13)	Soil	09/06/2013 11:10
S57975.13	SB-05-08 (13-15)	Soil	09/06/2013 11:15

Analytical Laboratory Report

Lab Sample ID: S57975.01
Sample Tag: SB-05-07 (1-3)
Collected Date/Time: 09/06/2013 09:40
Matrix: Soil
COC Reference: 75768

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/10/13 14:41	RGS		
Inorganics								
Total Solids	96	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 11:32	JAN	12674-11-2	
PCB-1242	1,000	ug/kg	330	SW8082A	09/12/13 11:32	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 11:32	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 11:32	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 11:32	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 11:32	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 11:32	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57975.02
Sample Tag: SB-05-07 (3-5)
Collected Date/Time: 09/06/2013 09:45
Matrix: Soil
COC Reference: 75768

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/10/13 14:41	RGS		
Inorganics								
Total Solids	93	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	09/12/13 12:06	JAN	12674-11-2	Y
PCB-1242	8,000	ug/kg	1,000	SW8082A	09/12/13 12:06	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	09/12/13 12:06	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	09/12/13 12:06	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	09/12/13 12:06	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	1,000	SW8082A	09/12/13 12:06	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	09/12/13 12:06	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S57975.03
Sample Tag: SB-05-07 (5-7)
Collected Date/Time: 09/06/2013 09:50
Matrix: Soil
COC Reference: 75768

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/10/13 14:41	RGS		
Inorganics								
Total Solids	88	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	09/12/13 12:17	JAN	12674-11-2	Y
PCB-1242	5,000	ug/kg	600	SW8082A	09/12/13 12:17	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	09/12/13 12:17	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	09/12/13 12:17	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	09/12/13 12:17	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	600	SW8082A	09/12/13 12:17	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	09/12/13 12:17	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S57975.04
Sample Tag: SB-05-07 (7-9)
Collected Date/Time: 09/06/2013 09:55
Matrix: Soil
COC Reference: 75768

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/10/13 14:41	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/11/13 12:20	JAN	12674-11-2	
PCB-1242	700	ug/kg	330	SW8082A	09/11/13 12:20	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/11/13 12:20	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/11/13 12:20	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/11/13 12:20	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/11/13 12:20	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/11/13 12:20	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57975.05
Sample Tag: SB-05-07 (9-11)
Collected Date/Time: 09/06/2013 10:00
Matrix: Soil
COC Reference: 75768

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/10/13 14:41	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 13:04	JAN	12674-11-2	
PCB-1242	1,000	ug/kg	330	SW8082A	09/12/13 13:04	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 13:04	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 13:04	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 13:04	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 13:04	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 13:04	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57975.06
Sample Tag: SB-05-07 (11-13)
Collected Date/Time: 09/06/2013 10:05
Matrix: Soil
COC Reference: 75768

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/10/13 14:41	RGS		
Inorganics								
Total Solids	79	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/11/13 12:44	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/11/13 12:44	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/11/13 12:44	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/11/13 12:44	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/11/13 12:44	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/11/13 12:44	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/11/13 12:44	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57975.07
Sample Tag: SB-05-07 (13-15)
Collected Date/Time: 09/06/2013 10:10
Matrix: Soil
COC Reference: 75768

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/10/13 14:41	RGS		
Inorganics								
Total Solids	78	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/11/13 12:54	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/11/13 12:54	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/11/13 12:54	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/11/13 12:54	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/11/13 12:54	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/11/13 12:54	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/11/13 12:54	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57975.08
Sample Tag: SB-05-08 (1-3)
Collected Date/Time: 09/06/2013 10:50
Matrix: Soil
COC Reference: 75768

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/10/13 14:41	RGS		
Inorganics								
Total Solids	93	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 13:40	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/12/13 13:40	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 13:40	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 13:40	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 13:40	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 13:40	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 13:40	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57975.09
Sample Tag: SB-05-08 (5-7)
Collected Date/Time: 09/06/2013 10:55
Matrix: Soil
COC Reference: 75768

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/10/13 14:41	RGS		
Inorganics								
Total Solids	88	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 13:50	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/12/13 13:50	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 13:50	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 13:50	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 13:50	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 13:50	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 13:50	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57975.10
Sample Tag: SB-05-08 (7-9)
Collected Date/Time: 09/06/2013 11:00
Matrix: Soil
COC Reference: 75768

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/10/13 14:41	RGS		
Inorganics								
Total Solids	89	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 13:19	JAN	12674-11-2	
PCB-1242	1,000	ug/kg	330	SW8082A	09/12/13 13:19	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 13:19	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 13:19	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 13:19	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 13:19	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 13:19	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57975.11
Sample Tag: SB-05-08 (9-11)
Collected Date/Time: 09/06/2013 11:05
Matrix: Soil
COC Reference: 75768

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/10/13 14:41	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 13:29	JAN	12674-11-2	
PCB-1242	2,000	ug/kg	330	SW8082A	09/12/13 13:29	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 13:29	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 13:29	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 13:29	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 13:29	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 13:29	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S57975.12
Sample Tag: SB-05-08 (11-13)
Collected Date/Time: 09/06/2013 11:10
Matrix: Soil
COC Reference: 75768

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/10/13 14:41	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	09/12/13 12:36	JAN	12674-11-2	Y
PCB-1242	9,000	ug/kg	1,000	SW8082A	09/12/13 12:36	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	09/12/13 12:36	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	09/12/13 12:36	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	09/12/13 12:36	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	1,000	SW8082A	09/12/13 12:36	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	09/12/13 12:36	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S57975.13
Sample Tag: SB-05-08 (13-15)
Collected Date/Time: 09/06/2013 11:15
Matrix: Soil
COC Reference: 75769

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/10/13 14:41	RGS		
Inorganics								
Total Solids	77	%	1	Std M 2540 B	09/08/13 15:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	09/12/13 12:51	JAN	12674-11-2	Y
PCB-1242	6,000	ug/kg	600	SW8082A	09/12/13 12:51	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	09/12/13 12:51	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	09/12/13 12:51	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	09/12/13 12:51	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	600	SW8082A	09/12/13 12:51	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	09/12/13 12:51	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

75768

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki
COMPANY: ARCADIS
ADDRESS: 28550 Cabot Drive Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO. 248-994-2240 FAX NO. 248-994-2241 P.O. NO. B0064410.2013
E-MAIL ADDRESS: micki.maki@arcadis-us.com QUOTE NO.

INVOICE TO

CONTACT NAME: X SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: B0064410.2013.00206 Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Drew Shaw

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
57975.01	9/6/13	0940	SB-05-07(1-3)	S	1	1							X
.02	9/6/13	0945	SB-05-07(3-5)	S	1	1							X
.03	9/6/13	0950	SB-05-07(5-7)	S	1	1							X
.04	9/6/13	0955	SB-05-07(7-9)	S	1	1							X
.05	9/6/13	1000	SB-05-07(9-11)	S	1	1							X
.06	9/6/13	1005	SB-05-07(11-13)	S	1	1							X
.07	9/6/13	1010	SB-05-07(13-15)	S	1	1							X
.08	9/6/13	1050	SB-05-08(1-3)	S	1	1							X
.09	9/6/13	1055	SB-05-08(5-7)	S	1	1							X
.10	9/6/13	1100	SB-05-08(7-9)	S	1	1							X
.11	9/6/13	1105	SB-05-08(9-11)	S	1	1							X
.12	9/6/13	1110	SB-05-08(11-13)	S	1	1							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION — X Sampler — DATE 9/6/13 TIME 1345
RECEIVED BY: SIGNATURE/ORGANIZATION — DATE 9/6/13 TIME 1345

RELINQUISHED BY: SIGNATURE/ORGANIZATION — DATE 9/6/13 TIME 1500
RECEIVED BY: SIGNATURE/ORGANIZATION — Courtney Ball — DATE 9/6/13 TIME 15:00

RELINQUISHED BY: SIGNATURE/ORGANIZATION — DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION — DATE TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 5.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

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C.O.C. PAGE # 2 OF 2

75769

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki
COMPANY: ARCADIS
ADDRESS: 28550 Cabot Drive Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-994-2240 FAX NO.: 248-994-2241 P.O. NO.: D0064410.2013
E-MAIL ADDRESS: Micki.Maki@arcadis-us.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: B0064410.2013.00206 Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Drew Shaw

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
57975.13	9/6/13	1115	SB-05-08(13-15)	S	1	1							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Drew Shaw ☒ Sampler DATE: 9/6/13 TIME: 1345
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: 9-6-13 TIME: 1345

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: 9-6-13 TIME: 1500
RECEIVED BY: SIGNATURE/ORGANIZATION: Barbara Ball DATE: 9/6/13 TIME: 15.00

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 5.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S58020.01(01)
Generated on 09/17/2013

Report to

Attention: Micki Maki
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 248-994-2240 FAX: 248-994-2241
Email: micki.maki@arcadis-us.com

Addtional Contacts: Erin Kozak

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Tabitha Faust (tfaust@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S58020.01-S58020.24
Project: B0064410.2013.00206 Buick City
Collected Date: 09/06/2013 - 09/10/2013
Submitted Date/Time: 09/10/2013 15:00
Sampled by: Drew Shaw
P.O. #: B0064410.2013.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (24 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S58020.01	SB-81-01 (0-2)	Soil	09/06/2013 14:05
S58020.02	SB-81-01 (3-5)	Soil	09/06/2013 14:10
S58020.03	SB-81-01 (5-7)	Soil	09/06/2013 14:15
S58020.04	SB-81-01 (7-9)	Soil	09/06/2013 14:20
S58020.05	SB-81-01 (9-11)	Soil	09/06/2013 14:25
S58020.06	SB-81-02 (0-2)	Soil	09/06/2013 14:50
S58020.07	SB-81-02 (3-5)	Soil	09/06/2013 14:55
S58020.08	SB-81-02 (5-7)	Soil	09/06/2013 15:00
S58020.09	SB-81-02 (7-9)	Soil	09/06/2013 15:05
S58020.10	SB-81-02 (9-11)	Soil	09/06/2013 15:10
S58020.11	SB-81-03 (0-2)	Soil	09/09/2013 13:40
S58020.12	SB-81-03 (3-5)	Soil	09/09/2013 13:45
S58020.13	SB-81-03 (5-7)	Soil	09/09/2013 13:50
S58020.14	SB-81-03 (7-9)	Soil	09/09/2013 13:55
S58020.15	SB-81-03 (9-11)	Soil	09/09/2013 14:00
S58020.16	SB-81-04 (0-2)	Soil	09/09/2013 14:50
S58020.17	SB-81-04 (3-5)	Soil	09/09/2013 14:55
S58020.18	SB-81-04 (5-7)	Soil	09/09/2013 15:00
S58020.19	SB-81-04 (7-9)	Soil	09/09/2013 15:05
S58020.20	SB-81-04 (9-11)	Soil	09/09/2013 15:10
S58020.21	SB-81-05 (0-2)	Soil	09/09/2013 17:00
S58020.22	MW-83/84-30 (1-2)	Soil	09/10/2013 12:30
S58020.23	MW-83/84-30 (9-10.5)	Soil	09/10/2013 12:35
S58020.24	MW-83/84-30 (105-12)	Soil	09/10/2013 12:40

Analytical Laboratory Report

Lab Sample ID: S58020.01
Sample Tag: SB-81-01 (0-2)
Collected Date/Time: 09/06/2013 14:05
Matrix: Soil
COC Reference: 75770

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	97	%	1	Std M 2540 B	09/10/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 16:41	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/12/13 16:41	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 16:41	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 16:41	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 16:41	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 16:41	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 16:41	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58020.02
Sample Tag: SB-81-01 (3-5)
Collected Date/Time: 09/06/2013 14:10
Matrix: Soil
COC Reference: 75770

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	94	%	1	Std M 2540 B	09/10/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 17:28	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/12/13 17:28	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 17:28	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 17:28	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 17:28	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 17:28	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 17:28	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58020.03
Sample Tag: SB-81-01 (5-7)
Collected Date/Time: 09/06/2013 14:15
Matrix: Soil
COC Reference: 75770

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	09/10/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 16:52	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/12/13 16:52	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 16:52	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 16:52	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 16:52	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 16:52	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 16:52	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58020.04
Sample Tag: SB-81-01 (7-9)
Collected Date/Time: 09/06/2013 14:20
Matrix: Soil
COC Reference: 75770

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	80	%	1	Std M 2540 B	09/10/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 17:02	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/12/13 17:02	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 17:02	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 17:02	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 17:02	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 17:02	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 17:02	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58020.05
Sample Tag: SB-81-01 (9-11)
Collected Date/Time: 09/06/2013 14:25
Matrix: Soil
COC Reference: 75770

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	09/10/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 18:31	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/12/13 18:31	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 18:31	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 18:31	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 18:31	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 18:31	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 18:31	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58020.06
Sample Tag: SB-81-02 (0-2)
Collected Date/Time: 09/06/2013 14:50
Matrix: Soil
COC Reference: 75770

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	09/10/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	09/13/13 13:43	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	09/13/13 13:43	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	09/13/13 13:43	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	09/13/13 13:43	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	09/13/13 13:43	JAN	12672-29-6	Y
PCB-1254	4,000	ug/kg	600	SW8082A	09/13/13 13:43	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	09/13/13 13:43	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S58020.07
Sample Tag: SB-81-02 (3-5)
Collected Date/Time: 09/06/2013 14:55
Matrix: Soil
COC Reference: 75770

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	93	%	1	Std M 2540 B	09/10/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	09/13/13 13:56	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	500	SW8082A	09/13/13 13:56	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	09/13/13 13:56	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	09/13/13 13:56	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	09/13/13 13:56	JAN	12672-29-6	Y
PCB-1254	5,000	ug/kg	500	SW8082A	09/13/13 13:56	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	09/13/13 13:56	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S58020.08
Sample Tag: SB-81-02 (5-7)
Collected Date/Time: 09/06/2013 15:00
Matrix: Soil
COC Reference: 75770

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	09/10/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	09/13/13 14:08	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	500	SW8082A	09/13/13 14:08	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	09/13/13 14:08	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	09/13/13 14:08	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	09/13/13 14:08	JAN	12672-29-6	Y
PCB-1254	3,000	ug/kg	500	SW8082A	09/13/13 14:08	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	09/13/13 14:08	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S58020.09
Sample Tag: SB-81-02 (7-9)
Collected Date/Time: 09/06/2013 15:05
Matrix: Soil
COC Reference: 75770

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	09/10/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 17:38	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/12/13 17:38	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 17:38	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 17:38	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 17:38	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 17:38	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 17:38	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58020.10
Sample Tag: SB-81-02 (9-11)
Collected Date/Time: 09/06/2013 15:10
Matrix: Soil
COC Reference: 75770

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	52	%	1	Std M 2540 B	09/10/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 17:13	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/12/13 17:13	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 17:13	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 17:13	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 17:13	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 17:13	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 17:13	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58020.11
Sample Tag: SB-81-03 (0-2)
Collected Date/Time: 09/09/2013 13:40
Matrix: Soil
COC Reference: 75770

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	09/10/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 17:17	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/12/13 17:17	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 17:17	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 17:17	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 17:17	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 17:17	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 17:17	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58020.12
Sample Tag: SB-81-03 (3-5)
Collected Date/Time: 09/09/2013 13:45
Matrix: Soil
COC Reference: 75770

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	09/10/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 17:23	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/12/13 17:23	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 17:23	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 17:23	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 17:23	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 17:23	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 17:23	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58020.13
Sample Tag: SB-81-03 (5-7)
Collected Date/Time: 09/09/2013 13:50
Matrix: Soil
COC Reference: 74662

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	78	%	1	Std M 2540 B	09/10/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 17:33	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/12/13 17:33	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 17:33	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 17:33	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 17:33	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 17:33	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 17:33	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58020.14
Sample Tag: SB-81-03 (7-9)
Collected Date/Time: 09/09/2013 13:55
Matrix: Soil
COC Reference: 74662

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	09/10/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 17:44	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/12/13 17:44	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 17:44	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 17:44	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 17:44	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 17:44	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 17:44	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58020.15
Sample Tag: SB-81-03 (9-11)
Collected Date/Time: 09/09/2013 14:00
Matrix: Soil
COC Reference: 74662

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	09/10/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 17:54	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/12/13 17:54	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 17:54	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 17:54	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 17:54	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 17:54	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 17:54	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58020.16
Sample Tag: SB-81-04 (0-2)
Collected Date/Time: 09/09/2013 14:50
Matrix: Soil
COC Reference: 74662

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	09/10/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	09/13/13 14:22	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	500	SW8082A	09/13/13 14:22	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	09/13/13 14:22	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	09/13/13 14:22	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	09/13/13 14:22	JAN	12672-29-6	Y
PCB-1254	3,000	ug/kg	500	SW8082A	09/13/13 14:22	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	09/13/13 14:22	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S58020.17
Sample Tag: SB-81-04 (3-5)
Collected Date/Time: 09/09/2013 14:55
Matrix: Soil
COC Reference: 74662

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	89	%	1	Std M 2540 B	09/10/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	2,000	SW8082A	09/13/13 11:29	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	2,000	SW8082A	09/13/13 11:29	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	2,000	SW8082A	09/13/13 11:29	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	2,000	SW8082A	09/13/13 11:29	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	2,000	SW8082A	09/13/13 11:29	JAN	12672-29-6	Y
PCB-1254	10,000	ug/kg	2,000	SW8082A	09/13/13 11:29	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	2,000	SW8082A	09/13/13 11:29	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S58020.18
Sample Tag: SB-81-04 (5-7)
Collected Date/Time: 09/09/2013 15:00
Matrix: Soil
COC Reference: 74662

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	09/10/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	09/13/13 14:32	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	500	SW8082A	09/13/13 14:32	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	09/13/13 14:32	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	09/13/13 14:32	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	09/13/13 14:32	JAN	12672-29-6	Y
PCB-1254	4,000	ug/kg	500	SW8082A	09/13/13 14:32	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	09/13/13 14:32	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S58020.19
Sample Tag: SB-81-04 (7-9)
Collected Date/Time: 09/09/2013 15:05
Matrix: Soil
COC Reference: 74662

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	09/11/13 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	09/13/13 14:45	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	09/13/13 14:45	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	09/13/13 14:45	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	09/13/13 14:45	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	09/13/13 14:45	JAN	12672-29-6	Y
PCB-1254	3,000	ug/kg	600	SW8082A	09/13/13 14:45	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	09/13/13 14:45	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S58020.20
Sample Tag: SB-81-04 (9-11)
Collected Date/Time: 09/09/2013 15:10
Matrix: Soil
COC Reference: 74662

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	09/11/13 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 17:49	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/12/13 17:49	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 17:49	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 17:49	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 17:49	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 17:49	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 17:49	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58020.21
Sample Tag: SB-81-05 (0-2)
Collected Date/Time: 09/09/2013 17:00
Matrix: Soil
COC Reference: 74662

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Inorganics								
Total Solids	93	%	1	Std M 2540 B	09/11/13 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 17:59	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/12/13 17:59	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 17:59	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 17:59	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 17:59	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 17:59	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 17:59	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58020.22
Sample Tag: MW-83/84-30 (1-2)
Collected Date/Time: 09/10/2013 12:30
Matrix: Soil
COC Reference: 74662

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3550B	09/12/13 12:40	EMR		
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Mercury Digestion	Completed			SW7471A	09/13/13 11:30	CCM		
Metal Digestion	Completed			3050B	09/16/13 09:15	JRH		
Inorganics								
Cyanide	Not detected	mg/kg	0.1	335.4/4500-CN-E	09/13/13 10:10	JDP	57-12-5	
Total Solids	96	%	1	Std M 2540 B	09/11/13 18:45	ASB		
Metals								
Antimony	Not detected	mg/kg	0.50	SW6020	09/16/13 12:53	JRH	7440-36-0	
Arsenic	0.71	mg/kg	0.10	SW6020	09/16/13 12:53	JRH	7440-38-2	
Barium	5.5	mg/kg	1.0	SW6020	09/16/13 12:53	JRH	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	SW6020	09/16/13 12:53	JRH	7440-41-7	
Cadmium	Not detected	mg/kg	0.20	SW6020	09/16/13 12:53	JRH	7440-43-9	
Chromium	0.73	mg/kg	0.50	SW6020	09/16/13 12:53	JRH	7440-47-3	
Cobalt	0.52	mg/kg	0.50	SW6020	09/16/13 12:53	JRH	7440-48-4	
Copper	2.8	mg/kg	1.0	SW6020	09/16/13 12:53	JRH	7440-50-8	
Lead	1.85	mg/kg	0.30	SW6020	09/16/13 12:53	JRH	7439-92-1	
Manganese	124	mg/kg	0.50	SW6020	09/16/13 12:53	JRH	7439-96-5	
Mercury	Not detected	mg/kg	0.050	SW7471A	09/13/13 14:50	CCM	7439-97-6	
Nickel	1.36	mg/kg	0.50	SW6020	09/16/13 12:53	JRH	7440-02-0	
Selenium	Not detected	mg/kg	0.50	SW6020	09/16/13 12:53	JRH	7782-49-2	
Silver	Not detected	mg/kg	0.20	SW6020	09/16/13 12:53	JRH	7440-22-4	
Thallium	Not detected	mg/kg	0.50	SW6020	09/16/13 12:53	JRH	7440-28-0	
Vanadium	1.00	mg/kg	0.50	SW6020	09/16/13 12:53	JRH	7440-62-2	
Zinc	5.4	mg/kg	1.0	SW6020	09/16/13 12:53	JRH	7440-66-6	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 18:10	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/12/13 18:10	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 18:10	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 18:10	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 18:10	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 18:10	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 18:10	JAN	11096-82-5	
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	347	ug/kg	330	SW8270C	09/17/13 12:41	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	208-96-8	

Lab Sample ID: S58020.22 (continued)
Sample Tag: MW-83/84-30 (1-2)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Anthracene	806	ug/kg	330	SW8270C	09/17/13 12:41	PL	120-12-7	
Benzo(a)anthracene	1,431	ug/kg	330	SW8270C	09/17/13 12:41	PL	56-55-3	
Benzo(b)fluoranthene	899	ug/kg	330	SW8270C	09/17/13 12:41	PL	205-99-2	
Benzo(k)fluoranthene	941	ug/kg	330	SW8270C	09/17/13 12:41	PL	207-08-9	
Benzo(ghi)perylene	663	ug/kg	330	SW8270C	09/17/13 12:41	PL	191-24-2	
Benzo(a)pyrene	1,358	ug/kg	330	SW8270C	09/17/13 12:41	PL	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	85-68-7	
4-Chloroaniline	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/kg	280	SW8270C	09/17/13 12:41	PL	59-50-7	
2-Chlorophenol	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	7005-72-3	
Chrysene	1,406	ug/kg	330	SW8270C	09/17/13 12:41	PL	218-01-9	
p,m-Cresol	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	3/4-Cresol	
o-Cresol	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	SW8270C	09/17/13 12:41	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	120-83-2	
Diethyl phthalate	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	SW8270C	09/17/13 12:41	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/kg	830	SW8270C	09/17/13 12:41	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	117-84-0	
Fluoranthene	2,951	ug/kg	330	SW8270C	09/17/13 12:41	PL	206-44-0	
Fluorene	365	ug/kg	330	SW8270C	09/17/13 12:41	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	830	ug/kg	330	SW8270C	09/17/13 12:41	PL	193-39-5	
Isophorone	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	91-20-3	
2-Nitroaniline	Not detected	ug/kg	830	SW8270C	09/17/13 12:41	PL	88-74-4	
3-Nitroaniline	Not detected	ug/kg	830	SW8270C	09/17/13 12:41	PL	99-09-2	

Lab Sample ID: S58020.22 (continued)
Sample Tag: MW-83/84-30 (1-2)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
4-Nitroaniline	Not detected	ug/kg	830	SW8270C	09/17/13 12:41	PL	100-01-6	
Nitrobenzene	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	98-95-3	
2-Nitrophenol	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	88-75-5	
4-Nitrophenol	Not detected	ug/kg	830	SW8270C	09/17/13 12:41	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	621-64-7	
Pentachlorophenol	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	87-86-5	
Phenanthrene	2,556	ug/kg	330	SW8270C	09/17/13 12:41	PL	85-01-8	
Phenol	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	108-95-2	
Pyrene	2,441	ug/kg	330	SW8270C	09/17/13 12:41	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	330	SW8270C	09/17/13 12:41	PL	88-06-2	
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	09/16/13 16:03	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	09/16/13 16:03	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:03	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	09/16/13 16:03	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	820	SW8260B/5035	09/16/13 16:03	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:03	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:03	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	09/16/13 16:03	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:03	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	09/16/13 16:03	WAT	109-99-9	
Chloroform	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	09/16/13 16:03	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	09/16/13 16:03	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	56-23-5	
Benzene	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:03	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	108-88-3	

Lab Sample ID: S58020.22 (continued)
Sample Tag: MW-83/84-30 (1-2)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
trans-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260B/5035	09/16/13 16:03	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	630-20-6	
Ethylbenzene	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT		
o-Xylene	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	95-47-6	
Styrene	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:03	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:03	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	09/16/13 16:03	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:03	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:03	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	360	SW8260B/5035	09/16/13 16:03	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	360	SW8260B/5035	09/16/13 16:03	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	360	SW8260B/5035	09/16/13 16:03	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	360	SW8260B/5035	09/16/13 16:03	WAT	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S58020.23
Sample Tag: MW-83/84-30 (9-10.5)
Collected Date/Time: 09/10/2013 12:35
Matrix: Soil
COC Reference: 74662

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3550B	09/12/13 12:40	EMR		
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Mercury Digestion	Completed			SW7471A	09/13/13 11:30	CCM		
Metal Digestion	Completed			3050B	09/16/13 09:15	JRH		
Inorganics								
Cyanide	Not detected	mg/kg	0.1	335.4/4500-CN-E	09/13/13 10:18	JDP	57-12-5	
Total Solids	86	%	1	Std M 2540 B	09/11/13 18:45	ASB		
Metals								
Antimony	Not detected	mg/kg	0.50	SW6020	09/16/13 12:10	JRH	7440-36-0	
Arsenic	0.57	mg/kg	0.10	SW6020	09/16/13 12:10	JRH	7440-38-2	
Barium	9.5	mg/kg	1.0	SW6020	09/16/13 12:10	JRH	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	SW6020	09/16/13 12:10	JRH	7440-41-7	
Cadmium	Not detected	mg/kg	0.20	SW6020	09/16/13 12:10	JRH	7440-43-9	
Chromium	1.06	mg/kg	0.50	SW6020	09/16/13 12:10	JRH	7440-47-3	
Cobalt	1.26	mg/kg	0.50	SW6020	09/16/13 12:10	JRH	7440-48-4	
Copper	11.5	mg/kg	1.0	SW6020	09/16/13 12:10	JRH	7440-50-8	
Lead	4.88	mg/kg	0.30	SW6020	09/16/13 12:10	JRH	7439-92-1	
Manganese	81.2	mg/kg	0.50	SW6020	09/16/13 12:10	JRH	7439-96-5	
Mercury	Not detected	mg/kg	0.050	SW7471A	09/13/13 14:52	CCM	7439-97-6	
Nickel	1.66	mg/kg	0.50	SW6020	09/16/13 12:10	JRH	7440-02-0	
Selenium	Not detected	mg/kg	0.50	SW6020	09/16/13 12:10	JRH	7782-49-2	
Silver	Not detected	mg/kg	0.20	SW6020	09/16/13 12:10	JRH	7440-22-4	
Thallium	Not detected	mg/kg	0.50	SW6020	09/16/13 12:10	JRH	7440-28-0	
Vanadium	2.18	mg/kg	0.50	SW6020	09/16/13 12:10	JRH	7440-62-2	
Zinc	3.5	mg/kg	1.0	SW6020	09/16/13 12:10	JRH	7440-66-6	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/12/13 18:21	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/12/13 18:21	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/12/13 18:21	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/12/13 18:21	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/12/13 18:21	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/12/13 18:21	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/12/13 18:21	JAN	11096-82-5	
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	208-96-8	

Lab Sample ID: S58020.23 (continued)
Sample Tag: MW-83/84-30 (9-10.5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Anthracene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	120-12-7	
Benzo(a)anthracene	419	ug/kg	330	SW8270C	09/17/13 13:14	PL	56-55-3	
Benzo(b)fluoranthene	756	ug/kg	330	SW8270C	09/17/13 13:14	PL	205-99-2	
Benzo(k)fluoranthene	527	ug/kg	330	SW8270C	09/17/13 13:14	PL	207-08-9	
Benzo(ghi)perylene	667	ug/kg	330	SW8270C	09/17/13 13:14	PL	191-24-2	
Benzo(a)pyrene	826	ug/kg	330	SW8270C	09/17/13 13:14	PL	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	85-68-7	
4-Chloroaniline	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/kg	280	SW8270C	09/17/13 13:14	PL	59-50-7	
2-Chlorophenol	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	7005-72-3	
Chrysene	643	ug/kg	330	SW8270C	09/17/13 13:14	PL	218-01-9	
p,m-Cresol	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	3/4-Cresol	
o-Cresol	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	SW8270C	09/17/13 13:14	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	120-83-2	
Diethyl phthalate	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	SW8270C	09/17/13 13:14	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/kg	830	SW8270C	09/17/13 13:14	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	117-84-0	
Fluoranthene	651	ug/kg	330	SW8270C	09/17/13 13:14	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	744	ug/kg	330	SW8270C	09/17/13 13:14	PL	193-39-5	
Isophorone	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	91-20-3	
2-Nitroaniline	Not detected	ug/kg	830	SW8270C	09/17/13 13:14	PL	88-74-4	
3-Nitroaniline	Not detected	ug/kg	830	SW8270C	09/17/13 13:14	PL	99-09-2	

Lab Sample ID: S58020.23 (continued)
Sample Tag: MW-83/84-30 (9-10.5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
4-Nitroaniline	Not detected	ug/kg	830	SW8270C	09/17/13 13:14	PL	100-01-6	
Nitrobenzene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	98-95-3	
2-Nitrophenol	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	88-75-5	
4-Nitrophenol	Not detected	ug/kg	830	SW8270C	09/17/13 13:14	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	621-64-7	
Pentachlorophenol	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	85-01-8	
Phenol	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	108-95-2	
Pyrene	686	ug/kg	330	SW8270C	09/17/13 13:14	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	330	SW8270C	09/17/13 13:14	PL	88-06-2	
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:21	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	09/16/13 16:21	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:21	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:21	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	970	SW8260B/5035	09/16/13 16:21	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:21	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:21	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:21	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:21	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	09/16/13 16:21	WAT	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	09/16/13 16:21	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	09/16/13 16:21	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:21	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	108-88-3	

Lab Sample ID: S58020.23 (continued)
Sample Tag: MW-83/84-30 (9-10.5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	09/16/13 16:21	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT		
o-Xylene	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:21	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:21	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	09/16/13 16:21	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	09/16/13 16:21	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:21	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	430	SW8260B/5035	09/16/13 16:21	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	430	SW8260B/5035	09/16/13 16:21	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	430	SW8260B/5035	09/16/13 16:21	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	430	SW8260B/5035	09/16/13 16:21	WAT	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S58020.24
Sample Tag: MW-83/84-30 (105-12)
Collected Date/Time: 09/10/2013 12:40
Matrix: Soil
COC Reference: 74662

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3550B	09/12/13 12:40	EMR		
Extraction, PCB	Completed			3550B	09/11/13 14:17	RGS		
Mercury Digestion	Completed			SW7471A	09/13/13 11:30	CCM		
Metal Digestion	Completed			3050B	09/16/13 09:15	JRH		
Inorganics								
Cyanide	Not detected	mg/kg	0.1	335.4/4500-CN-E	09/13/13 10:20	JDP	57-12-5	
Total Solids	86	%	1	Std M 2540 B	09/11/13 18:45	ASB		
Metals								
Antimony	Not detected	mg/kg	0.50	SW6020	09/16/13 12:14	JRH	7440-36-0	
Arsenic	1.32	mg/kg	0.10	SW6020	09/16/13 12:14	JRH	7440-38-2	
Barium	3.3	mg/kg	1.0	SW6020	09/16/13 12:14	JRH	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	SW6020	09/16/13 12:14	JRH	7440-41-7	
Cadmium	Not detected	mg/kg	0.20	SW6020	09/16/13 12:14	JRH	7440-43-9	
Chromium	0.56	mg/kg	0.50	SW6020	09/16/13 12:14	JRH	7440-47-3	
Cobalt	0.87	mg/kg	0.50	SW6020	09/16/13 12:14	JRH	7440-48-4	
Copper	4.1	mg/kg	1.0	SW6020	09/16/13 12:14	JRH	7440-50-8	
Lead	2.55	mg/kg	0.30	SW6020	09/16/13 12:14	JRH	7439-92-1	
Manganese	149	mg/kg	0.50	SW6020	09/16/13 12:14	JRH	7439-96-5	
Mercury	Not detected	mg/kg	0.050	SW7471A	09/13/13 14:54	CCM	7439-97-6	
Nickel	1.14	mg/kg	0.50	SW6020	09/16/13 12:14	JRH	7440-02-0	
Selenium	Not detected	mg/kg	0.50	SW6020	09/16/13 12:14	JRH	7782-49-2	
Silver	Not detected	mg/kg	0.20	SW6020	09/16/13 12:14	JRH	7440-22-4	
Thallium	Not detected	mg/kg	0.50	SW6020	09/16/13 12:14	JRH	7440-28-0	
Vanadium	1.71	mg/kg	0.50	SW6020	09/16/13 12:14	JRH	7440-62-2	
Zinc	7.7	mg/kg	1.0	SW6020	09/16/13 12:14	JRH	7440-66-6	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	09/13/13 14:57	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	09/13/13 14:57	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	09/13/13 14:57	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	09/13/13 14:57	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	09/13/13 14:57	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	09/13/13 14:57	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	09/13/13 14:57	JAN	11096-82-5	
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	83-32-9	X

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S58020.24 (continued)
Sample Tag: MW-83/84-30 (105-12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Acenaphthylene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	208-96-8	X
Anthracene	1,800	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	120-12-7	X
Benzo(a)anthracene	1,800	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	56-55-3	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	205-99-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	207-08-9	X
Benzo(ghi)perylene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	191-24-2	X
Benzo(a)pyrene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	50-32-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	108-60-1	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	117-81-7	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	101-55-3	X
Butyl benzyl phthalate	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	85-68-7	X
4-Chloroaniline	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	106-47-8	X
2-Chloronaphthalene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	91-58-7	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	59-50-7	X
2-Chlorophenol	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	95-57-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	7005-72-3	X
Chrysene	2,500	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	218-01-9	X
p,m-Cresol	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	3/4-Cresol	X
o-Cresol	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	95-48-7	X
Dibenzo(ah)anthracene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	53-70-3	X
Dibenzofuran	1,800	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	132-64-9	X
di-n-Butyl phthalate	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	84-74-2	X
1,2-Dichlorobenzene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	95-50-1	X
1,3-Dichlorobenzene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	541-73-1	X
1,4-Dichlorobenzene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	106-46-7	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	SW8270C	09/17/13 13:48	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	120-83-2	X
Diethyl phthalate	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	84-66-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	105-67-9	X
Dimethyl phthalate	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	131-11-3	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	534-52-1	X
2,4-Dinitrophenol	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	606-20-2	X
1,2-Diphenylhydrazine	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	122-66-7	X
di-n-Octyl phthalate	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	117-84-0	X
Fluoranthene	4,900	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	206-44-0	X
Fluorene	4,800	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	193-39-5	X
Isophorone	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	91-57-6	X
Naphthalene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	91-20-3	X

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S58020.24 (continued)
Sample Tag: MW-83/84-30 (105-12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
2-Nitroaniline	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	88-74-4	X
3-Nitroaniline	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	100-01-6	X
Nitrobenzene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	98-95-3	X
2-Nitrophenol	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	88-75-5	X
4-Nitrophenol	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	100-02-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	2,900	SW8270C	09/17/13 13:48	PL	86-30-6	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	621-64-7	X
Pentachlorophenol	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	87-86-5	X
Phenanthrene	3,800	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	85-01-8	X
Phenol	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	108-95-2	X
Pyrene	4,000	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	129-00-0	X
1,2,4-Trichlorobenzene	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	120-82-1	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,500	SW8270C	09/17/13 13:48	PL	88-06-2	X
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:39	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	09/16/13 16:39	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:39	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:39	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,000	SW8260B/5035	09/16/13 16:39	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:39	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:39	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:39	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:39	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	09/16/13 16:39	WAT	109-99-9	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	09/16/13 16:39	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	09/16/13 16:39	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	75-27-4	

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S58020.24 (continued)
Sample Tag: MW-83/84-30 (105-12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:39	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	09/16/13 16:39	WAT	106-93-4	M
Chlorobenzene	200	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	630-20-6	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT		
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:39	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	95-63-6	
sec-Butylbenzene	110	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	135-98-8	
p-Isopropyltoluene	200	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	106-46-7	
1,2-Dichlorobenzene	200	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	09/16/13 16:39	WAT	526-73-8	
n-Butylbenzene	300	ug/kg	70	SW8260B/5035	09/16/13 16:39	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	09/16/13 16:39	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	09/16/13 16:39	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	440	SW8260B/5035	09/16/13 16:39	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	440	SW8260B/5035	09/16/13 16:39	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	440	SW8260B/5035	09/16/13 16:39	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	440	SW8260B/5035	09/16/13 16:39	WAT	91-57-6	

M-Result reported to MDL not RDL

Merit Laboratories, Inc.

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C.O.C. PAGE # 1 OF 2

75770

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki / Erin.Kozak@arcadis-us.com
COMPANY: ARCADIS
ADDRESS: 28550 Cabot Drive Suite 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248-994-2246 | FAX NO.: 248-994-2241 | P.O. NO.: B00644l0.2013.WA031
E-MAIL ADDRESS: Micki.Maki@arcadis-us.com | QUOTE NO.:

INVOICE TO

CONTACT NAME: X SAME
COMPANY:
ADDRESS:
CITY | STATE | ZIP CODE
PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME: B00644l0.2013.00206 Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Drew Shaw

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS X STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD X LEVEL II ☐ LEVEL III ☐ LEVEL IV X EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
58020.01	9/6/13	1405	SB-81-01 (0-2)	S	1	1							X
.02	9/6/13	1410	SB-81-01 (3-5)	S	1	1							X
.03	9/6/13	1415	SB-81-01 (5-7)	S	1	1							X
.04	9/6/13	1420	SB-81-01 (7-9)	S	1	1							X
.05	9/6/13	1425	SB-81-01 (9-11)	S	1	1							X
.06	9/6/13	1450	SB-81-02 (0-2)	S	1	1							X
.07	9/6/13	1455	SB-81-02 (3-5)	S	1	1							X
.08	9/6/13	1900	SB-81-02 (5-7)	S	1	1							X
.09	9/6/13	1505	SB-81-02 (7-9)	S	1	1							X
.10	9/6/13	1510	SB-81-02 (9-11)	S	1	1							X
.11	9/9/13	1340	SB-81-03 (0-2)										
.12	9/9/13	1345	SB-81-03 (3-5										

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Drew Shaw X Sampler	DATE: 9/10/13	TIME: 1350	
RECEIVED BY: SIGNATURE/ORGANIZATION: Arcadis	DATE: 9/10/13	TIME: 1350	
RELINQUISHED BY: SIGNATURE/ORGANIZATION:	DATE	TIME	
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE	TIME	

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Arcadis	DATE: 9/10/13	TIME: 1500	
RECEIVED BY: SIGNATURE/ORGANIZATION: Federal Express	DATE: 9-10-13	TIME: 1500	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 5.0
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

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C.O.C. PAGE # 2 OF 2

74662

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki / Erin.Kozak@arcadis-us.com
COMPANY: ARCADIS
ADDRESS: 28550 Cabot Dr. Ste. 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248-994-2240 | FAX NO.: 248-994-2241 | P.O. NO.: B0064410.2013.WA031
E-MAIL ADDRESS: micki.maki@arcadis-us.com | QUOTE NO.:

INVOICE TO

CONTACT NAME | X SAME
COMPANY
ADDRESS
CITY | STATE | ZIP CODE
PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME: Buick City D0064410.2013.00206
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Drew Shar Drew Shar

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☒ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	12C13	VOC	SVOC	Metals
54020.13	9/9/13	1350	SB-81-03(5-7)	S	1	1							X			
.14	9/9/13	1355	SB-81-03(7-9)	S	1	1							X			
.15	9/9/13	1400	SB-81-03(9-11)	S	1	1							X			
.16	9/9/13	1450	SB-81-04(0-2)	S	1	1							X			
.17	9/9/13	1455	SB-81-04(3-5)	S	1	1							X			
.18	9/9/13	1500	SB-81-04(5-7)	S	1	1							X			
.19	9/9/13	1505	SB-81-04(7-9)	S	1	1							X			
.20	9/9/13	1510	SB-81-04(9-11)	S	1	1							X			
.21	9/9/13	1700	SB-81-05(0-2)	S	1	1							X			
.22	9/10/13	1230	MW-83/84-30(1-2)	S	2	1					1		X	X	X	X
.23	9/10/13	1235	MW-83/84-30(9-10.5)	S	2	1					1		X	X	X	X
.24	9/10/13	1240	MW-83/84-30(10.5-12)	S	2	1					1		X	X	X	X

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Drew Shar / Arcadis (X Sampler) — DATE 9/10/13 TIME 1350
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature] — DATE 9-10-13 TIME 1352

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] — DATE 9/10/13 TIME 1520
RECEIVED BY: SIGNATURE/ORGANIZATION: Tashetta Faust — DATE 9-10-13 TIME 1020

RELINQUISHED BY: SIGNATURE/ORGANIZATION — DATE — TIME
RECEIVED BY: SIGNATURE/ORGANIZATION — DATE — TIME

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS
SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS

NOTES: TEMP. ON ARRIVAL 5.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S58541.01(01)
Generated on 10/24/2013

Report to

Attention: Amee Freeman
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 248-994-2243 FAX: 248-994-2241
Email: amee.freeman@arcadis-us.com

Addtional Contacts: Erin Kozak, Drew Shaw

Report produced by

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Contacts for report questions:
Tabitha Faust (tfaust@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S58541.01-S58541.25
Project: B0064410.2013.00206 / Buick City RACER Flint, MI
Collected Date: 10/14/2013 - 10/15/2013
Submitted Date/Time: 10/15/2013 15:45
Sampled by: A. Richmond
P.O. #: B0064410.2013.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (25 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S58541.01	SB-10-09 (2-4)	Soil	10/14/2013 11:20
S58541.02	SB-10-09 (4-6)	Soil	10/14/2013 11:30
S58541.03	SB-10-09 (6-8)	Soil	10/14/2013 11:40
S58541.04	SB-10-09 (8-10)	Soil	10/14/2013 11:50
S58541.05	SB-10-09 (10-12)	Soil	10/14/2013 12:00
S58541.06	DUP-1	Soil	10/14/2013 00:01
S58541.07	SB-10-10 (2-4)	Soil	10/14/2013 14:40
S58541.08	SB-10-10 (4-6)	Soil	10/14/2013 14:50
S58541.09	SB-10-10 (6-8)	Soil	10/14/2013 15:00
S58541.10	SB-10-10 (8-10)	Soil	10/14/2013 15:05
S58541.11	SB-10-10 (10-12)	Soil	10/14/2013 15:10
S58541.12	SB-10-11 (4-6)	Soil	10/14/2013 16:20
S58541.13	SB-10-11 (6-8)	Soil	10/14/2013 16:30
S58541.14	SB-10-11 (8-10)	Soil	10/14/2013 16:35
S58541.15	SB-10-11 (10-12)	Soil	10/14/2013 16:40
S58541.16	SB-10-11 (10-12) MS	Soil	10/14/2013 16:40
S58541.17	SB-10-11 (10-12) MSD	Soil	10/14/2013 16:40
S58541.18	MW-83/84-29 (1-2)	Soil	10/15/2013 09:10
S58541.19	MW-83/84-29 (1-2) MS	Soil	10/15/2013 09:10
S58541.20	MW-83/84-29 (1-2) MSD	Soil	10/15/2013 09:10
S58541.21	MW-83/84-29 (6-7)	Soil	10/15/2013 09:35
S58541.22	MW-83/84-29 (4-5)	Soil	10/15/2013 10:00
S58541.23	SB-36-16 (4-5)	Soil	10/15/2013 14:00
S58541.24	DUP-2	Soil	10/15/2013 00:01
S58541.25	TRIP BLANK	Liquid	10/15/2013 00:01

Analytical Laboratory Report

Lab Sample ID: S58541.01
Sample Tag: SB-10-09 (2-4)
Collected Date/Time: 10/14/2013 11:20
Matrix: Soil
COC Reference: 76854

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/15/13 16:30	TSF		

Analytical Laboratory Report

Lab Sample ID: S58541.02
Sample Tag: SB-10-09 (4-6)
Collected Date/Time: 10/14/2013 11:30
Matrix: Soil
COC Reference: 76854

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	10/16/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/22/13 15:06	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/22/13 15:06	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/22/13 15:06	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/22/13 15:06	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/22/13 15:06	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/22/13 15:06	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	10/22/13 15:06	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58541.03
Sample Tag: SB-10-09 (6-8)
Collected Date/Time: 10/14/2013 11:40
Matrix: Soil
COC Reference: 76854

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Inorganics								
Total Solids	77	%	1	Std M 2540 B	10/15/13 11:20	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/22/13 15:20	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/22/13 15:20	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/22/13 15:20	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/22/13 15:20	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/22/13 15:20	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/22/13 15:20	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	10/22/13 15:20	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58541.04
Sample Tag: SB-10-09 (8-10)
Collected Date/Time: 10/14/2013 11:50
Matrix: Soil
COC Reference: 76854

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	10/15/13 11:20	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/22/13 15:34	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/22/13 15:34	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/22/13 15:34	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/22/13 15:34	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/22/13 15:34	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/22/13 15:34	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	10/22/13 15:34	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58541.05
Sample Tag: SB-10-09 (10-12)
Collected Date/Time: 10/14/2013 12:00
Matrix: Soil
COC Reference: 76854

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	10/15/13 11:20	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/21/13 15:02	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/21/13 15:02	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/21/13 15:02	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/21/13 15:02	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/21/13 15:02	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/21/13 15:02	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	10/21/13 15:02	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58541.06
Sample Tag: DUP-1
Collected Date/Time: 10/14/2013 00:01
Matrix: Soil
COC Reference: 76854

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Inorganics								
Total Solids	79	%	1	Std M 2540 B	10/15/13 11:20	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/22/13 15:56	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/22/13 15:56	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/22/13 15:56	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/22/13 15:56	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/22/13 15:56	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/22/13 15:56	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	10/22/13 15:56	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58541.07
Sample Tag: SB-10-10 (2-4)
Collected Date/Time: 10/14/2013 14:40
Matrix: Soil
COC Reference: 76854

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/15/13 16:30	TSF		

Analytical Laboratory Report

Lab Sample ID: S58541.08
Sample Tag: SB-10-10 (4-6)
Collected Date/Time: 10/14/2013 14:50
Matrix: Soil
COC Reference: 76854

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Inorganics								
Total Solids	75	%	1	Std M 2540 B	10/16/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/22/13 13:47	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/22/13 13:47	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/22/13 13:47	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/22/13 13:47	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/22/13 13:47	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/22/13 13:47	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	10/22/13 13:47	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58541.09
Sample Tag: SB-10-10 (6-8)
Collected Date/Time: 10/14/2013 15:00
Matrix: Soil
COC Reference: 76854

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Inorganics								
Total Solids	78	%	1	Std M 2540 B	10/16/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/22/13 12:33	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/22/13 12:33	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/22/13 12:33	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/22/13 12:33	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/22/13 12:33	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/22/13 12:33	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	10/22/13 12:33	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58541.10
Sample Tag: SB-10-10 (8-10)
Collected Date/Time: 10/14/2013 15:05
Matrix: Soil
COC Reference: 76854

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	10/16/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/22/13 15:44	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/22/13 15:44	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/22/13 15:44	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/22/13 15:44	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/22/13 15:44	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/22/13 15:44	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	10/22/13 15:44	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58541.11
Sample Tag: SB-10-10 (10-12)
Collected Date/Time: 10/14/2013 15:10
Matrix: Soil
COC Reference: 76854

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	10/16/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/22/13 12:44	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/22/13 12:44	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/22/13 12:44	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/22/13 12:44	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/22/13 12:44	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/22/13 12:44	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	10/22/13 12:44	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58541.12
Sample Tag: SB-10-11 (4-6)
Collected Date/Time: 10/14/2013 16:20
Matrix: Soil
COC Reference: 76854

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Inorganics								
Total Solids	79	%	1	Std M 2540 B	10/16/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/22/13 12:54	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/22/13 12:54	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/22/13 12:54	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/22/13 12:54	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/22/13 12:54	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/22/13 12:54	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	10/22/13 12:54	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58541.13
Sample Tag: SB-10-11 (6-8)
Collected Date/Time: 10/14/2013 16:30
Matrix: Soil
COC Reference: 76855

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Inorganics								
Total Solids	80	%	1	Std M 2540 B	10/16/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/22/13 13:05	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/22/13 13:05	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/22/13 13:05	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/22/13 13:05	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/22/13 13:05	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/22/13 13:05	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	10/22/13 13:05	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58541.14
Sample Tag: SB-10-11 (8-10)
Collected Date/Time: 10/14/2013 16:35
Matrix: Soil
COC Reference: 76855

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Inorganics								
Total Solids	96	%	1	Std M 2540 B	10/16/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/22/13 13:16	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/22/13 13:16	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/22/13 13:16	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/22/13 13:16	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/22/13 13:16	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/22/13 13:16	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	10/22/13 13:16	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58541.15
Sample Tag: SB-10-11 (10-12)
Collected Date/Time: 10/14/2013 16:40
Matrix: Soil
COC Reference: 76855

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	10/16/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/21/13 13:33	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/21/13 13:33	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/21/13 13:33	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/21/13 13:33	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/21/13 13:33	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/21/13 13:33	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	10/21/13 13:33	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58541.16
Sample Tag: SB-10-11 (10-12) MS
Collected Date/Time: 10/14/2013 16:40
Matrix: Soil
COC Reference: 76855

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	10/16/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	30	ug/kg	330	SW8082A	10/21/13 13:52	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/21/13 13:52	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/21/13 13:52	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/21/13 13:52	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/21/13 13:52	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/21/13 13:52	JAN	11097-69-1	
PCB-1260	20	ug/kg	330	SW8082A	10/21/13 13:52	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58541.17
Sample Tag: SB-10-11 (10-12) MSD
Collected Date/Time: 10/14/2013 16:40
Matrix: Soil
COC Reference: 76855

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	10/16/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	30	ug/kg	330	SW8082A	10/21/13 14:12	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/21/13 14:12	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/21/13 14:12	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/21/13 14:12	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/21/13 14:12	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/21/13 14:12	JAN	11097-69-1	
PCB-1260	20	ug/kg	330	SW8082A	10/21/13 14:12	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58541.18
Sample Tag: MW-83/84-29 (1-2)
Collected Date/Time: 10/15/2013 09:10
Matrix: Soil
COC Reference: 76855

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR
1	40ml Glass	MeOH	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3550B	10/18/13 14:06	EMR		
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Mercury Digestion	Completed			SW7471A	10/21/13 11:25	CCM		
Metal Digestion	Completed			3050B	10/24/13 10:00	PER		
Inorganics								
Cyanide	Not detected	mg/kg	0.1	335.4/4500-CN-E	10/21/13 12:10	JDP	57-12-5	
Total Solids	96	%	1	Std M 2540 B	10/16/13 16:30	ASB		
Metals								
Antimony	Not detected	mg/kg	0.50	SW6020	10/24/13 12:40	PER	7440-36-0	
Arsenic	0.97	mg/kg	0.20	SW6020	10/24/13 12:40	PER	7440-38-2	
Barium	6.08	mg/kg	1.0	SW6020	10/24/13 12:40	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	SW6020	10/24/13 12:40	PER	7440-41-7	
Cadmium	Not detected	mg/kg	0.20	SW6020	10/24/13 12:40	PER	7440-43-9	
Chromium	0.72	mg/kg	0.50	SW6020	10/24/13 12:40	PER	7440-47-3	
Cobalt	1.19	mg/kg	0.50	SW6020	10/24/13 12:40	PER	7440-48-4	
Copper	2.99	mg/kg	0.50	SW6020	10/24/13 12:40	PER	7440-50-8	
Lead	2.31	mg/kg	0.30	SW6020	10/24/13 12:40	PER	7439-92-1	
Manganese	154	mg/kg	0.50	SW6020	10/24/13 12:40	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.050	SW7471A	10/21/13 16:47	CCM	7439-97-6	
Nickel	6.65	mg/kg	0.50	SW6020	10/24/13 12:40	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.40	SW6020	10/24/13 12:40	PER	7782-49-2	
Silver	Not detected	mg/kg	0.20	SW6020	10/24/13 12:40	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	SW6020	10/24/13 12:40	PER	7440-28-0	
Vanadium	1.27	mg/kg	0.50	SW6020	10/24/13 12:40	PER	7440-62-2	
Zinc	6.49	mg/kg	1.0	SW6020	10/24/13 12:40	PER	7440-66-6	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/21/13 14:24	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/21/13 14:24	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/21/13 14:24	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/21/13 14:24	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/21/13 14:24	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/21/13 14:24	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	10/21/13 14:24	JAN	11096-82-5	
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	208-96-8	

Lab Sample ID: S58541.18 (continued)
Sample Tag: MW-83/84-29 (1-2)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Anthracene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	205-99-2	I
Benzo(k)fluoranthene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	207-08-9	I
Benzo(ghi)perylene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	191-24-2	I
Benzo(a)pyrene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	50-32-8	I
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	85-68-7	
4-Chloroaniline	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/kg	280	SW8270C	10/21/13 19:06	PL	59-50-7	
2-Chlorophenol	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	7005-72-3	
Chrysene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	218-01-9	
p,m-Cresol	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	3/4-Cresol	
o-Cresol	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	53-70-3	I
Dibenzofuran	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	SW8270C	10/21/13 19:06	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	120-83-2	
Diethyl phthalate	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	SW8270C	10/21/13 19:06	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/kg	830	SW8270C	10/21/13 19:06	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	117-84-0	I
Fluoranthene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	193-39-5	I
Isophorone	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	91-20-3	
2-Nitroaniline	Not detected	ug/kg	830	SW8270C	10/21/13 19:06	PL	88-74-4	

I-Matrix interference with internal standard

Lab Sample ID: S58541.18 (continued)
Sample Tag: MW-83/84-29 (1-2)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
3-Nitroaniline	Not detected	ug/kg	830	SW8270C	10/21/13 19:06	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	830	SW8270C	10/21/13 19:06	PL	100-01-6	
Nitrobenzene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	98-95-3	
2-Nitrophenol	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	88-75-5	
4-Nitrophenol	Not detected	ug/kg	830	SW8270C	10/21/13 19:06	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	621-64-7	
Pentachlorophenol	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	85-01-8	
Phenol	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	108-95-2	
Pyrene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	330	SW8270C	10/21/13 19:06	PL	88-06-2	
Semi-Volatile Organics - MDEQ (Replicate 01)								
Acenaphthene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	208-96-8	
Anthracene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	85-68-7	
4-Chloroaniline	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/kg	280	SW8270D	10/22/13 16:56	PL	59-50-7	
2-Chlorophenol	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	7005-72-3	
Chrysene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	218-01-9	
p,m-Cresol	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	3/4-Cresol	
o-Cresol	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	SW8270D	10/22/13 16:56	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	120-83-2	
Diethyl phthalate	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	131-11-3	

Lab Sample ID: S58541.18 (continued)
Sample Tag: MW-83/84-29 (1-2)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (Replicate 01) (continued)								
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	SW8270D	10/22/13 16:56	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/kg	830	SW8270D	10/22/13 16:56	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	117-84-0	
Fluoranthene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	193-39-5	
Isophorone	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	91-20-3	
2-Nitroaniline	Not detected	ug/kg	830	SW8270D	10/22/13 16:56	PL	88-74-4	
3-Nitroaniline	Not detected	ug/kg	830	SW8270D	10/22/13 16:56	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	830	SW8270D	10/22/13 16:56	PL	100-01-6	
Nitrobenzene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	98-95-3	
2-Nitrophenol	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	88-75-5	
4-Nitrophenol	Not detected	ug/kg	830	SW8270D	10/22/13 16:56	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	621-64-7	
Pentachlorophenol	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	85-01-8	
Phenol	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	108-95-2	
Pyrene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	330	SW8270D	10/22/13 16:56	PL	88-06-2	
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	10/18/13 15:48	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	10/18/13 15:48	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	10/18/13 15:48	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	10/18/13 15:48	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	840	SW8260B/5035	10/18/13 15:48	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 15:48	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 15:48	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	10/18/13 15:48	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 15:48	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	75-09-2	

Lab Sample ID: S58541.18 (continued)
Sample Tag: MW-83/84-29 (1-2)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	10/18/13 15:48	WAT	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	10/18/13 15:48	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	10/18/13 15:48	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 15:48	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260B/5035	10/18/13 15:48	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT		
o-Xylene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	10/18/13 15:48	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 15:48	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 15:48	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 15:48	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 15:48	WAT	96-12-8	

M-Result reported to MDL not RDL

Lab Sample ID: S58541.18 (continued)
Sample Tag: MW-83/84-29 (1-2)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/kg	370	SW8260B/5035	10/18/13 15:48	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	370	SW8260B/5035	10/18/13 15:48	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	370	SW8260B/5035	10/18/13 15:48	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	370	SW8260B/5035	10/18/13 15:48	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58541.19
Sample Tag: MW-83/84-29 (1-2) MS
Collected Date/Time: 10/15/2013 09:10
Matrix: Soil
COC Reference: 76855

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR
1	40ml Glass	MeOH	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3550B	10/18/13 14:06	EMR		
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Mercury Digestion	Completed			SW7471A	10/21/13 11:25	CCM		
Metal Digestion	Completed			3050B	10/24/13 10:00	PER		
Inorganics								
Cyanide	1.89	mg/kg	0.1	335.4/4500-CN-E	10/21/13 12:14	JDP	57-12-5	1
Total Solids	97	%	1	Std M 2540 B	10/16/13 16:30	ASB		
Metals								
Antimony	20.8	mg/kg	0.50	SW6020	10/24/13 12:46	PER	7440-36-0	
Arsenic	23.8	mg/kg	0.20	SW6020	10/24/13 12:46	PER	7440-38-2	
Barium	28.8	mg/kg	1.0	SW6020	10/24/13 12:46	PER	7440-39-3	
Beryllium	18.0	mg/kg	0.20	SW6020	10/24/13 12:46	PER	7440-41-7	
Cadmium	21.6	mg/kg	0.20	SW6020	10/24/13 12:46	PER	7440-43-9	
Chromium	19.5	mg/kg	0.50	SW6020	10/24/13 12:46	PER	7440-47-3	
Cobalt	23.0	mg/kg	0.50	SW6020	10/24/13 12:46	PER	7440-48-4	
Copper	22.3	mg/kg	0.50	SW6020	10/24/13 12:46	PER	7440-50-8	
Lead	20.2	mg/kg	0.30	SW6020	10/24/13 12:46	PER	7439-92-1	
Manganese	178	mg/kg	0.50	SW6020	10/24/13 12:46	PER	7439-96-5	
Mercury	0.108	mg/kg	0.050	SW7471A	10/21/13 16:49	CCM	7439-97-6	
Nickel	28.3	mg/kg	0.50	SW6020	10/24/13 12:46	PER	7440-02-0	
Selenium	21.0	mg/kg	0.40	SW6020	10/24/13 12:46	PER	7782-49-2	
Silver	19.2	mg/kg	0.20	SW6020	10/24/13 12:46	PER	7440-22-4	
Thallium	18.9	mg/kg	0.20	SW6020	10/24/13 12:46	PER	7440-28-0	
Vanadium	21.2	mg/kg	0.50	SW6020	10/24/13 12:46	PER	7440-62-2	
Zinc	26.4	mg/kg	1.0	SW6020	10/24/13 12:46	PER	7440-66-6	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	30	ug/kg	330	SW8082A	10/21/13 14:35	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/21/13 14:35	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/21/13 14:35	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/21/13 14:35	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/21/13 14:35	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/21/13 14:35	JAN	11097-69-1	
PCB-1260	20	ug/kg	330	SW8082A	10/21/13 14:35	JAN	11096-82-5	
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	1,522	ug/kg	330	SW8270C	10/21/13 19:39	PL	83-32-9	2

1-* Sample spiked @ 0.1ppm x dilution = 2.10 mg/kg
2-Sample spiked at 50 mg/kg

Lab Sample ID: S58541.19 (continued)
Sample Tag: MW-83/84-29 (1-2) MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Acenaphthylene	1,617	ug/kg	330	SW8270C	10/21/13 19:39	PL	208-96-8	1
Anthracene	1,652	ug/kg	330	SW8270C	10/21/13 19:39	PL	120-12-7	1
Benzo(a)anthracene	1,720	ug/kg	330	SW8270C	10/21/13 19:39	PL	56-55-3	1
Benzo(b)fluoranthene	1,951	ug/kg	330	SW8270C	10/21/13 19:39	PL	205-99-2	1I
Benzo(k)fluoranthene	2,017	ug/kg	330	SW8270C	10/21/13 19:39	PL	207-08-9	1I
Benzo(ghi)perylene	551	ug/kg	330	SW8270C	10/21/13 19:39	PL	191-24-2	1I
Benzo(a)pyrene	1,713	ug/kg	330	SW8270C	10/21/13 19:39	PL	50-32-8	1I
bis(2-Chloroethoxy)methane	1,458	ug/kg	330	SW8270C	10/21/13 19:39	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,476	ug/kg	330	SW8270C	10/21/13 19:39	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,674	ug/kg	330	SW8270C	10/21/13 19:39	PL	108-60-1	1
bis(2-Ethylhexyl)phthalate	2,089	ug/kg	330	SW8270C	10/21/13 19:39	PL	117-81-7	1
4-Bromophenyl phenyl ether	1,637	ug/kg	330	SW8270C	10/21/13 19:39	PL	101-55-3	1
Butyl benzyl phthalate	1,986	ug/kg	330	SW8270C	10/21/13 19:39	PL	85-68-7	1
4-Chloroaniline	1,004	ug/kg	330	SW8270C	10/21/13 19:39	PL	106-47-8	1
2-Chloronaphthalene	1,487	ug/kg	330	SW8270C	10/21/13 19:39	PL	91-58-7	1
4-Chloro-3-methylphenol	1,571	ug/kg	280	SW8270C	10/21/13 19:39	PL	59-50-7	1
2-Chlorophenol	1,433	ug/kg	330	SW8270C	10/21/13 19:39	PL	95-57-8	1
4-Chlorophenyl phenyl ether	1,594	ug/kg	330	SW8270C	10/21/13 19:39	PL	7005-72-3	1
Chrysene	1,757	ug/kg	330	SW8270C	10/21/13 19:39	PL	218-01-9	1
p,m-Cresol	2,800	ug/kg	330	SW8270C	10/21/13 19:39	PL	3/4-Cresol	1
o-Cresol	1,748	ug/kg	330	SW8270C	10/21/13 19:39	PL	95-48-7	1
Dibenzo(ah)anthracene	715	ug/kg	330	SW8270C	10/21/13 19:39	PL	53-70-3	1I
Dibenzofuran	1,538	ug/kg	330	SW8270C	10/21/13 19:39	PL	132-64-9	1
di-n-Butyl phthalate	1,771	ug/kg	330	SW8270C	10/21/13 19:39	PL	84-74-2	1B
1,2-Dichlorobenzene	1,373	ug/kg	330	SW8270C	10/21/13 19:39	PL	95-50-1	1
1,3-Dichlorobenzene	1,338	ug/kg	330	SW8270C	10/21/13 19:39	PL	541-73-1	1
1,4-Dichlorobenzene	1,336	ug/kg	330	SW8270C	10/21/13 19:39	PL	106-46-7	1
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	SW8270C	10/21/13 19:39	PL	91-94-1	1
2,4-Dichlorophenol	1,437	ug/kg	330	SW8270C	10/21/13 19:39	PL	120-83-2	1
Diethyl phthalate	1,790	ug/kg	330	SW8270C	10/21/13 19:39	PL	84-66-2	1B
2,4-Dimethylphenol	1,596	ug/kg	330	SW8270C	10/21/13 19:39	PL	105-67-9	1
Dimethyl phthalate	1,621	ug/kg	330	SW8270C	10/21/13 19:39	PL	131-11-3	1
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	SW8270C	10/21/13 19:39	PL	534-52-1	1
2,4-Dinitrophenol	Not detected	ug/kg	830	SW8270C	10/21/13 19:39	PL	51-28-5	1
2,4-Dinitrotoluene	1,551	ug/kg	330	SW8270C	10/21/13 19:39	PL	121-14-2	1
2,6-Dinitrotoluene	1,596	ug/kg	330	SW8270C	10/21/13 19:39	PL	606-20-2	1
1,2-Diphenylhydrazine	1,573	ug/kg	330	SW8270C	10/21/13 19:39	PL	122-66-7	1
di-n-Octyl phthalate	4,064	ug/kg	330	SW8270C	10/21/13 19:39	PL	117-84-0	1I
Fluoranthene	1,608	ug/kg	330	SW8270C	10/21/13 19:39	PL	206-44-0	1
Fluorene	1,581	ug/kg	330	SW8270C	10/21/13 19:39	PL	86-73-7	1
Hexachlorobenzene	1,608	ug/kg	330	SW8270C	10/21/13 19:39	PL	118-74-1	1
Hexachlorobutadiene	1,402	ug/kg	330	SW8270C	10/21/13 19:39	PL	87-68-3	1
Hexachlorocyclopentadiene	790	ug/kg	330	SW8270C	10/21/13 19:39	PL	77-47-4	1
Hexachloroethane	1,351	ug/kg	330	SW8270C	10/21/13 19:39	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	678	ug/kg	330	SW8270C	10/21/13 19:39	PL	193-39-5	1I
Isophorone	1,784	ug/kg	330	SW8270C	10/21/13 19:39	PL	78-59-1	1

1-Sample spiked at 50 mg/kg
I-Matrix interference with internal standard
B-Compound also found in associated method blank

Lab Sample ID: S58541.19 (continued)
Sample Tag: MW-83/84-29 (1-2) MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
2-Methylnaphthalene	1,470	ug/kg	330	SW8270C	10/21/13 19:39	PL	91-57-6	1
Naphthalene	1,433	ug/kg	330	SW8270C	10/21/13 19:39	PL	91-20-3	1
2-Nitroaniline	1,567	ug/kg	830	SW8270C	10/21/13 19:39	PL	88-74-4	1
3-Nitroaniline	1,268	ug/kg	830	SW8270C	10/21/13 19:39	PL	99-09-2	1
4-Nitroaniline	1,452	ug/kg	830	SW8270C	10/21/13 19:39	PL	100-01-6	1
Nitrobenzene	1,396	ug/kg	330	SW8270C	10/21/13 19:39	PL	98-95-3	1
2-Nitrophenol	1,396	ug/kg	330	SW8270C	10/21/13 19:39	PL	88-75-5	1
4-Nitrophenol	1,287	ug/kg	830	SW8270C	10/21/13 19:39	PL	100-02-7	1
N-Nitrosodiphenylamine	1,691	ug/kg	330	SW8270C	10/21/13 19:39	PL	86-30-6	1
N-Nitrosodi-n-propylamine	1,542	ug/kg	330	SW8270C	10/21/13 19:39	PL	621-64-7	1
Pentachlorophenol	738	ug/kg	330	SW8270C	10/21/13 19:39	PL	87-86-5	1
Phenanthrene	1,621	ug/kg	330	SW8270C	10/21/13 19:39	PL	85-01-8	1
Phenol	1,476	ug/kg	330	SW8270C	10/21/13 19:39	PL	108-95-2	1
Pyrene	2,095	ug/kg	330	SW8270C	10/21/13 19:39	PL	129-00-0	1
1,2,4-Trichlorobenzene	1,355	ug/kg	330	SW8270C	10/21/13 19:39	PL	120-82-1	1
2,4,5-Trichlorophenol	1,474	ug/kg	330	SW8270C	10/21/13 19:39	PL	95-95-4	1
2,4,6-Trichlorophenol	1,402	ug/kg	330	SW8270C	10/21/13 19:39	PL	88-06-2	1
Semi-Volatile Organics - MDEQ (Replicate 01)								
Acenaphthene	1,445	ug/kg	330	SW8270D	10/22/13 17:30	PL	83-32-9	1
Acenaphthylene	1,532	ug/kg	330	SW8270D	10/22/13 17:30	PL	208-96-8	1
Anthracene	1,573	ug/kg	330	SW8270D	10/22/13 17:30	PL	120-12-7	1
Benzo(a)anthracene	1,604	ug/kg	330	SW8270D	10/22/13 17:30	PL	56-55-3	1
Benzo(b)fluoranthene	1,429	ug/kg	330	SW8270D	10/22/13 17:30	PL	205-99-2	1
Benzo(k)fluoranthene	1,394	ug/kg	330	SW8270D	10/22/13 17:30	PL	207-08-9	1
Benzo(ghi)perylene	1,614	ug/kg	330	SW8270D	10/22/13 17:30	PL	191-24-2	1
Benzo(a)pyrene	1,513	ug/kg	330	SW8270D	10/22/13 17:30	PL	50-32-8	1
bis(2-Chloroethoxy)methane	1,379	ug/kg	330	SW8270D	10/22/13 17:30	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,373	ug/kg	330	SW8270D	10/22/13 17:30	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,588	ug/kg	330	SW8270D	10/22/13 17:30	PL	108-60-1	1
bis(2-Ethylhexyl)phthalate	1,800	ug/kg	330	SW8270D	10/22/13 17:30	PL	117-81-7	1
4-Bromophenyl phenyl ether	1,546	ug/kg	330	SW8270D	10/22/13 17:30	PL	101-55-3	1
Butyl benzyl phthalate	1,670	ug/kg	330	SW8270D	10/22/13 17:30	PL	85-68-7	1
4-Chloroaniline	973	ug/kg	330	SW8270D	10/22/13 17:30	PL	106-47-8	1
2-Chloronaphthalene	1,394	ug/kg	330	SW8270D	10/22/13 17:30	PL	91-58-7	1
4-Chloro-3-methylphenol	1,447	ug/kg	280	SW8270D	10/22/13 17:30	PL	59-50-7	1
2-Chlorophenol	1,351	ug/kg	330	SW8270D	10/22/13 17:30	PL	95-57-8	1
4-Chlorophenyl phenyl ether	1,503	ug/kg	330	SW8270D	10/22/13 17:30	PL	7005-72-3	1
Chrysene	1,685	ug/kg	330	SW8270D	10/22/13 17:30	PL	218-01-9	1
p,m-Cresol	2,588	ug/kg	330	SW8270D	10/22/13 17:30	PL	3/4-Cresol	1
o-Cresol	1,584	ug/kg	330	SW8270D	10/22/13 17:30	PL	95-48-7	1
Dibenzo(ah)anthracene	2,025	ug/kg	330	SW8270D	10/22/13 17:30	PL	53-70-3	1
Dibenzofuran	1,452	ug/kg	330	SW8270D	10/22/13 17:30	PL	132-64-9	1
di-n-Butyl phthalate	1,689	ug/kg	330	SW8270D	10/22/13 17:30	PL	84-74-2	1B
1,2-Dichlorobenzene	1,309	ug/kg	330	SW8270D	10/22/13 17:30	PL	95-50-1	1
1,3-Dichlorobenzene	1,262	ug/kg	330	SW8270D	10/22/13 17:30	PL	541-73-1	1
1,4-Dichlorobenzene	1,278	ug/kg	330	SW8270D	10/22/13 17:30	PL	106-46-7	1

1-Sample spiked at 50 mg/kg
B-Compound also found in associated method blank

Lab Sample ID: S58541.19 (continued)
Sample Tag: MW-83/84-29 (1-2) MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (Replicate 01) (continued)								
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	SW8270D	10/22/13 17:30	PL	91-94-1	1
2,4-Dichlorophenol	1,318	ug/kg	330	SW8270D	10/22/13 17:30	PL	120-83-2	1
Diethyl phthalate	1,713	ug/kg	330	SW8270D	10/22/13 17:30	PL	84-66-2	1B
2,4-Dimethylphenol	1,487	ug/kg	330	SW8270D	10/22/13 17:30	PL	105-67-9	1
Dimethyl phthalate	1,532	ug/kg	330	SW8270D	10/22/13 17:30	PL	131-11-3	1
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	SW8270D	10/22/13 17:30	PL	534-52-1	1
2,4-Dinitrophenol	Not detected	ug/kg	830	SW8270D	10/22/13 17:30	PL	51-28-5	1
2,4-Dinitrotoluene	1,485	ug/kg	330	SW8270D	10/22/13 17:30	PL	121-14-2	1
2,6-Dinitrotoluene	1,507	ug/kg	330	SW8270D	10/22/13 17:30	PL	606-20-2	1
1,2-Diphenylhydrazine	1,511	ug/kg	330	SW8270D	10/22/13 17:30	PL	122-66-7	1
di-n-Octyl phthalate	2,045	ug/kg	330	SW8270D	10/22/13 17:30	PL	117-84-0	1
Fluoranthene	1,571	ug/kg	330	SW8270D	10/22/13 17:30	PL	206-44-0	1
Fluorene	1,495	ug/kg	330	SW8270D	10/22/13 17:30	PL	86-73-7	1
Hexachlorobenzene	1,544	ug/kg	330	SW8270D	10/22/13 17:30	PL	118-74-1	1
Hexachlorobutadiene	1,338	ug/kg	330	SW8270D	10/22/13 17:30	PL	87-68-3	1
Hexachlorocyclopentadiene	740	ug/kg	330	SW8270D	10/22/13 17:30	PL	77-47-4	1
Hexachloroethane	1,295	ug/kg	330	SW8270D	10/22/13 17:30	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,645	ug/kg	330	SW8270D	10/22/13 17:30	PL	193-39-5	1
Isophorone	1,693	ug/kg	330	SW8270D	10/22/13 17:30	PL	78-59-1	1
2-Methylnaphthalene	1,351	ug/kg	330	SW8270D	10/22/13 17:30	PL	91-57-6	1
Naphthalene	1,361	ug/kg	330	SW8270D	10/22/13 17:30	PL	91-20-3	1
2-Nitroaniline	1,439	ug/kg	830	SW8270D	10/22/13 17:30	PL	88-74-4	1
3-Nitroaniline	1,225	ug/kg	830	SW8270D	10/22/13 17:30	PL	99-09-2	1
4-Nitroaniline	1,412	ug/kg	830	SW8270D	10/22/13 17:30	PL	100-01-6	1
Nitrobenzene	1,355	ug/kg	330	SW8270D	10/22/13 17:30	PL	98-95-3	1
2-Nitrophenol	1,307	ug/kg	330	SW8270D	10/22/13 17:30	PL	88-75-5	1
4-Nitrophenol	1,233	ug/kg	830	SW8270D	10/22/13 17:30	PL	100-02-7	1
N-Nitrosodiphenylamine	1,571	ug/kg	330	SW8270D	10/22/13 17:30	PL	86-30-6	1
N-Nitrosodi-n-propylamine	1,464	ug/kg	330	SW8270D	10/22/13 17:30	PL	621-64-7	1
Pentachlorophenol	786	ug/kg	330	SW8270D	10/22/13 17:30	PL	87-86-5	1
Phenanthrene	1,542	ug/kg	330	SW8270D	10/22/13 17:30	PL	85-01-8	1
Phenol	1,336	ug/kg	330	SW8270D	10/22/13 17:30	PL	108-95-2	1
Pyrene	1,608	ug/kg	330	SW8270D	10/22/13 17:30	PL	129-00-0	1
1,2,4-Trichlorobenzene	1,278	ug/kg	330	SW8270D	10/22/13 17:30	PL	120-82-1	1
2,4,5-Trichlorophenol	1,355	ug/kg	330	SW8270D	10/22/13 17:30	PL	95-95-4	1
2,4,6-Trichlorophenol	1,280	ug/kg	330	SW8270D	10/22/13 17:30	PL	88-06-2	1
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	2,900	ug/kg	200	SW8260B/5035	10/18/13 22:14	WAT	60-29-7	2
Acetone	3,000	ug/kg	1,000	SW8260B/5035	10/18/13 22:14	WAT	67-64-1	2
Methyl iodide	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	74-88-4	2
Carbon disulfide	2,300	ug/kg	300	SW8260B/5035	10/18/13 22:14	WAT	75-15-0	2
tert-Methyl butyl ether (MTBE)	2,700	ug/kg	200	SW8260B/5035	10/18/13 22:14	WAT	1634-04-4	2
Acrylonitrile	2,400	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	107-13-1	2
2-Butanone (MEK)	2,450	ug/kg	820	SW8260B/5035	10/18/13 22:14	WAT	78-93-3	2

1-Sample spiked at 50 mg/kg
B-Compound also found in associated method blank
2-Spiked at 2.7mg/kg

Lab Sample ID: S58541.19 (continued)
Sample Tag: MW-83/84-29 (1-2) MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dichlorodifluoromethane	2,900	ug/kg	300	SW8260B/5035	10/18/13 22:14	WAT	75-71-8	1
Chloromethane	2,500	ug/kg	300	SW8260B/5035	10/18/13 22:14	WAT	74-87-3	1
Vinyl chloride	2,520	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	75-01-4	1
Bromomethane	3,200	ug/kg	200	SW8260B/5035	10/18/13 22:14	WAT	74-83-9	1
Chloroethane	3,200	ug/kg	300	SW8260B/5035	10/18/13 22:14	WAT	75-00-3	1
Trichlorofluoromethane	3,200	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	75-69-4	1
1,1-Dichloroethene	2,850	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	75-35-4	1
Methylene chloride	2,500	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	75-09-2	1
trans-1,2-Dichloroethene	2,730	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	156-60-5	1
1,1-Dichloroethane	2,720	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	75-34-3	1
cis-1,2-Dichloroethene	2,680	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	156-59-2	1
Tetrahydrofuran	2,000	ug/kg	1,000	SW8260B/5035	10/18/13 22:14	WAT	109-99-9	1
Chloroform	2,800	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	67-66-3	1
Bromochloromethane	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	74-97-5	1
1,1,1-Trichloroethane	2,690	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	3,000	ug/kg	3,000	SW8260B/5035	10/18/13 22:14	WAT	108-10-1	1
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	10/18/13 22:14	WAT	591-78-6	1
Carbon tetrachloride	2,830	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	56-23-5	1
Benzene	2,650	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	71-43-2	1
1,2-Dichloroethane	2,880	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	107-06-2	1
Trichloroethene	2,750	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	79-01-6	1
1,2-Dichloropropane	2,730	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	78-87-5	1
Bromodichloromethane	2,600	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	75-27-4	1
Dibromomethane	2,800	ug/kg	300	SW8260B/5035	10/18/13 22:14	WAT	74-95-3	1
cis-1,3-Dichloropropene	2,640	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	10061-01-5	1
Toluene	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	108-88-3	1
trans-1,3-Dichloropropene	2,630	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	10061-02-6	1
1,1,2-Trichloroethane	2,690	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	79-00-5	1
Tetrachloroethene	2,620	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	2,520	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	110-57-6	1
Dibromochloromethane	2,600	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	124-48-1	1
1,2-Dibromoethane	2,700	ug/kg	20	SW8260B/5035	10/18/13 22:14	WAT	106-93-4	1M
Chlorobenzene	2,600	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	2,800	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	630-20-6	1
Ethylbenzene	2,710	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	100-41-4	1
p,m-Xylene	5,400	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT		1
o-Xylene	2,770	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	95-47-6	1
Styrene	2,810	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	100-42-5	1
Isopropylbenzene	2,700	ug/kg	300	SW8260B/5035	10/18/13 22:14	WAT	98-82-8	1
Bromoform	2,600	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	2,680	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	79-34-5	1
1,2,3-Trichloropropane	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	96-18-4	1
n-Propylbenzene	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	103-65-1	1
Bromobenzene	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	108-86-1	1
1,3,5-Trimethylbenzene	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	108-67-8	1
tert-Butylbenzene	2,850	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	98-06-6	1
1,2,4-Trimethylbenzene	2,800	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	95-63-6	1

1-Spiked at 2.7mg/kg
M-Result reported to MDL not RDL

Lab Sample ID: S58541.19 (continued)
Sample Tag: MW-83/84-29 (1-2) MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
sec-Butylbenzene	2,720	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	135-98-8	1
p-Isopropyltoluene	2,800	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	99-87-6	1
1,3-Dichlorobenzene	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	541-73-1	1
1,4-Dichlorobenzene	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	106-46-7	1
1,2-Dichlorobenzene	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	95-50-1	1
1,2,3-Trimethylbenzene	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:14	WAT	526-73-8	1
n-Butylbenzene	2,780	ug/kg	50	SW8260B/5035	10/18/13 22:14	WAT	104-51-8	1
Hexachloroethane	2,700	ug/kg	300	SW8260B/5035	10/18/13 22:14	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	2,800	ug/kg	300	SW8260B/5035	10/18/13 22:14	WAT	96-12-8	1
1,2,4-Trichlorobenzene	2,890	ug/kg	360	SW8260B/5035	10/18/13 22:14	WAT	120-82-1	1
1,2,3-Trichlorobenzene	2,940	ug/kg	360	SW8260B/5035	10/18/13 22:14	WAT	87-61-6	1
Naphthalene	3,070	ug/kg	360	SW8260B/5035	10/18/13 22:14	WAT	91-20-3	1
2-Methylnaphthalene	3,480	ug/kg	360	SW8260B/5035	10/18/13 22:14	WAT	91-57-6	1

1-Spiked at 2.7mg/kg

Analytical Laboratory Report

Lab Sample ID: S58541.20
Sample Tag: MW-83/84-29 (1-2) MSD
Collected Date/Time: 10/15/2013 09:10
Matrix: Soil
COC Reference: 76855

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR
1	40ml Glass	MeOH	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3550B	10/18/13 14:06	EMR		
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Mercury Digestion	Completed			SW7471A	10/21/13 11:25	CCM		
Metal Digestion	Completed			3050B	10/24/13 10:00	PER		
Inorganics								
Cyanide	1.87	mg/kg	0.1	335.4/4500-CN-E	10/21/13 12:16	JDP	57-12-5	1
Total Solids	97	%	1	Std M 2540 B	10/16/13 16:30	ASB		
Metals								
Antimony	21.2	mg/kg	0.50	SW6020	10/24/13 12:58	PER	7440-36-0	
Arsenic	23.7	mg/kg	0.20	SW6020	10/24/13 12:58	PER	7440-38-2	
Barium	29.4	mg/kg	1.0	SW6020	10/24/13 12:58	PER	7440-39-3	
Beryllium	17.7	mg/kg	0.20	SW6020	10/24/13 12:58	PER	7440-41-7	
Cadmium	21.9	mg/kg	0.20	SW6020	10/24/13 12:58	PER	7440-43-9	
Chromium	19.6	mg/kg	0.50	SW6020	10/24/13 12:58	PER	7440-47-3	
Cobalt	23.0	mg/kg	0.50	SW6020	10/24/13 12:58	PER	7440-48-4	
Copper	22.7	mg/kg	0.50	SW6020	10/24/13 12:58	PER	7440-50-8	
Lead	20.6	mg/kg	0.30	SW6020	10/24/13 12:58	PER	7439-92-1	
Manganese	179	mg/kg	0.50	SW6020	10/24/13 12:58	PER	7439-96-5	
Mercury	0.112	mg/kg	0.050	SW7471A	10/21/13 16:51	CCM	7439-97-6	
Nickel	28.1	mg/kg	0.50	SW6020	10/24/13 12:58	PER	7440-02-0	
Selenium	20.2	mg/kg	0.40	SW6020	10/24/13 12:58	PER	7782-49-2	
Silver	19.6	mg/kg	0.20	SW6020	10/24/13 12:58	PER	7440-22-4	
Thallium	19.2	mg/kg	0.20	SW6020	10/24/13 12:58	PER	7440-28-0	
Vanadium	21.4	mg/kg	0.50	SW6020	10/24/13 12:58	PER	7440-62-2	
Zinc	26.2	mg/kg	1.0	SW6020	10/24/13 12:58	PER	7440-66-6	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	20	ug/kg	330	SW8082A	10/21/13 14:49	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/21/13 14:49	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/21/13 14:49	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/21/13 14:49	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/21/13 14:49	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/21/13 14:49	JAN	11097-69-1	
PCB-1260	20	ug/kg	330	SW8082A	10/21/13 14:49	JAN	11096-82-5	
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	1,412	ug/kg	330	SW8270C	10/21/13 20:12	PL	83-32-9	2

1-* Sample spiked @ 0.1ppm x dilution = 2.10 mg/kg
2-Sample spiked at 50 mg/kg

Lab Sample ID: S58541.20 (continued)
Sample Tag: MW-83/84-29 (1-2) MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Acenaphthylene	1,526	ug/kg	330	SW8270C	10/21/13 20:12	PL	208-96-8	1
Anthracene	1,526	ug/kg	330	SW8270C	10/21/13 20:12	PL	120-12-7	1
Benzo(a)anthracene	1,540	ug/kg	330	SW8270C	10/21/13 20:12	PL	56-55-3	1
Benzo(b)fluoranthene	1,779	ug/kg	330	SW8270C	10/21/13 20:12	PL	205-99-2	1I
Benzo(k)fluoranthene	1,819	ug/kg	330	SW8270C	10/21/13 20:12	PL	207-08-9	1I
Benzo(ghi)perylene	511	ug/kg	330	SW8270C	10/21/13 20:12	PL	191-24-2	1I
Benzo(a)pyrene	1,604	ug/kg	330	SW8270C	10/21/13 20:12	PL	50-32-8	1I
bis(2-Chloroethoxy)methane	1,386	ug/kg	330	SW8270C	10/21/13 20:12	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,375	ug/kg	330	SW8270C	10/21/13 20:12	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,573	ug/kg	330	SW8270C	10/21/13 20:12	PL	108-60-1	1
bis(2-Ethylhexyl)phthalate	1,918	ug/kg	330	SW8270C	10/21/13 20:12	PL	117-81-7	1
4-Bromophenyl phenyl ether	1,526	ug/kg	330	SW8270C	10/21/13 20:12	PL	101-55-3	1
Butyl benzyl phthalate	1,808	ug/kg	330	SW8270C	10/21/13 20:12	PL	85-68-7	1
4-Chloroaniline	977	ug/kg	330	SW8270C	10/21/13 20:12	PL	106-47-8	1
2-Chloronaphthalene	1,388	ug/kg	330	SW8270C	10/21/13 20:12	PL	91-58-7	1
4-Chloro-3-methylphenol	1,472	ug/kg	280	SW8270C	10/21/13 20:12	PL	59-50-7	1
2-Chlorophenol	1,359	ug/kg	330	SW8270C	10/21/13 20:12	PL	95-57-8	1
4-Chlorophenyl phenyl ether	1,474	ug/kg	330	SW8270C	10/21/13 20:12	PL	7005-72-3	1
Chrysene	1,635	ug/kg	330	SW8270C	10/21/13 20:12	PL	218-01-9	1
p,m-Cresol	2,647	ug/kg	330	SW8270C	10/21/13 20:12	PL	3/4-Cresol	1
o-Cresol	1,631	ug/kg	330	SW8270C	10/21/13 20:12	PL	95-48-7	1
Dibenzo(ah)anthracene	654	ug/kg	330	SW8270C	10/21/13 20:12	PL	53-70-3	1I
Dibenzofuran	1,429	ug/kg	330	SW8270C	10/21/13 20:12	PL	132-64-9	1
di-n-Butyl phthalate	1,579	ug/kg	330	SW8270C	10/21/13 20:12	PL	84-74-2	1B
1,2-Dichlorobenzene	1,307	ug/kg	330	SW8270C	10/21/13 20:12	PL	95-50-1	1
1,3-Dichlorobenzene	1,256	ug/kg	330	SW8270C	10/21/13 20:12	PL	541-73-1	1
1,4-Dichlorobenzene	1,260	ug/kg	330	SW8270C	10/21/13 20:12	PL	106-46-7	1
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	SW8270C	10/21/13 20:12	PL	91-94-1	1
2,4-Dichlorophenol	1,336	ug/kg	330	SW8270C	10/21/13 20:12	PL	120-83-2	1
Diethyl phthalate	1,639	ug/kg	330	SW8270C	10/21/13 20:12	PL	84-66-2	1B
2,4-Dimethylphenol	1,524	ug/kg	330	SW8270C	10/21/13 20:12	PL	105-67-9	1
Dimethyl phthalate	1,505	ug/kg	330	SW8270C	10/21/13 20:12	PL	131-11-3	1
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	SW8270C	10/21/13 20:12	PL	534-52-1	1
2,4-Dinitrophenol	Not detected	ug/kg	830	SW8270C	10/21/13 20:12	PL	51-28-5	1
2,4-Dinitrotoluene	1,445	ug/kg	330	SW8270C	10/21/13 20:12	PL	121-14-2	1
2,6-Dinitrotoluene	1,474	ug/kg	330	SW8270C	10/21/13 20:12	PL	606-20-2	1
1,2-Diphenylhydrazine	1,478	ug/kg	330	SW8270C	10/21/13 20:12	PL	122-66-7	1
di-n-Octyl phthalate	3,810	ug/kg	330	SW8270C	10/21/13 20:12	PL	117-84-0	1I
Fluoranthene	1,468	ug/kg	330	SW8270C	10/21/13 20:12	PL	206-44-0	1
Fluorene	1,472	ug/kg	330	SW8270C	10/21/13 20:12	PL	86-73-7	1
Hexachlorobenzene	1,480	ug/kg	330	SW8270C	10/21/13 20:12	PL	118-74-1	1
Hexachlorobutadiene	1,307	ug/kg	330	SW8270C	10/21/13 20:12	PL	87-68-3	1
Hexachlorocyclopentadiene	748	ug/kg	330	SW8270C	10/21/13 20:12	PL	77-47-4	1
Hexachloroethane	1,266	ug/kg	330	SW8270C	10/21/13 20:12	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	590	ug/kg	330	SW8270C	10/21/13 20:12	PL	193-39-5	1I
Isophorone	1,660	ug/kg	330	SW8270C	10/21/13 20:12	PL	78-59-1	1

1-Sample spiked at 50 mg/kg
I-Matrix interference with internal standard
B-Compound also found in associated method blank

Lab Sample ID: S58541.20 (continued)
Sample Tag: MW-83/84-29 (1-2) MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
2-Methylnaphthalene	1,367	ug/kg	330	SW8270C	10/21/13 20:12	PL	91-57-6	1
Naphthalene	1,357	ug/kg	330	SW8270C	10/21/13 20:12	PL	91-20-3	1
2-Nitroaniline	1,433	ug/kg	830	SW8270C	10/21/13 20:12	PL	88-74-4	1
3-Nitroaniline	1,190	ug/kg	830	SW8270C	10/21/13 20:12	PL	99-09-2	1
4-Nitroaniline	1,371	ug/kg	830	SW8270C	10/21/13 20:12	PL	100-01-6	1
Nitrobenzene	1,363	ug/kg	330	SW8270C	10/21/13 20:12	PL	98-95-3	1
2-Nitrophenol	1,311	ug/kg	330	SW8270C	10/21/13 20:12	PL	88-75-5	1
4-Nitrophenol	1,128	ug/kg	830	SW8270C	10/21/13 20:12	PL	100-02-7	1
N-Nitrosodiphenylamine	1,548	ug/kg	330	SW8270C	10/21/13 20:12	PL	86-30-6	1
N-Nitrosodi-n-propylamine	1,470	ug/kg	330	SW8270C	10/21/13 20:12	PL	621-64-7	1
Pentachlorophenol	670	ug/kg	330	SW8270C	10/21/13 20:12	PL	87-86-5	1
Phenanthrene	1,487	ug/kg	330	SW8270C	10/21/13 20:12	PL	85-01-8	1
Phenol	1,381	ug/kg	330	SW8270C	10/21/13 20:12	PL	108-95-2	1
Pyrene	1,885	ug/kg	330	SW8270C	10/21/13 20:12	PL	129-00-0	1
1,2,4-Trichlorobenzene	1,289	ug/kg	330	SW8270C	10/21/13 20:12	PL	120-82-1	1
2,4,5-Trichlorophenol	1,355	ug/kg	330	SW8270C	10/21/13 20:12	PL	95-95-4	1
2,4,6-Trichlorophenol	1,299	ug/kg	330	SW8270C	10/21/13 20:12	PL	88-06-2	1
Semi-Volatile Organics - MDEQ (Replicate 01)								
Acenaphthene	1,309	ug/kg	330	SW8270D	10/22/13 18:03	PL	83-32-9	1
Acenaphthylene	1,408	ug/kg	330	SW8270D	10/22/13 18:03	PL	208-96-8	1
Anthracene	1,396	ug/kg	330	SW8270D	10/22/13 18:03	PL	120-12-7	1
Benzo(a)anthracene	1,414	ug/kg	330	SW8270D	10/22/13 18:03	PL	56-55-3	1
Benzo(b)fluoranthene	1,186	ug/kg	330	SW8270D	10/22/13 18:03	PL	205-99-2	1
Benzo(k)fluoranthene	1,258	ug/kg	330	SW8270D	10/22/13 18:03	PL	207-08-9	1
Benzo(ghi)perylene	1,404	ug/kg	330	SW8270D	10/22/13 18:03	PL	191-24-2	1
Benzo(a)pyrene	1,334	ug/kg	330	SW8270D	10/22/13 18:03	PL	50-32-8	1
bis(2-Chloroethoxy)methane	1,243	ug/kg	330	SW8270D	10/22/13 18:03	PL	111-91-1	1
bis(2-Chloroethyl)ether	1,256	ug/kg	330	SW8270D	10/22/13 18:03	PL	111-44-4	1
bis(2-Chloroisopropyl)ether	1,443	ug/kg	330	SW8270D	10/22/13 18:03	PL	108-60-1	1
bis(2-Ethylhexyl)phthalate	1,571	ug/kg	330	SW8270D	10/22/13 18:03	PL	117-81-7	1
4-Bromophenyl phenyl ether	1,355	ug/kg	330	SW8270D	10/22/13 18:03	PL	101-55-3	1
Butyl benzyl phthalate	1,476	ug/kg	330	SW8270D	10/22/13 18:03	PL	85-68-7	1
4-Chloroaniline	903	ug/kg	330	SW8270D	10/22/13 18:03	PL	106-47-8	1
2-Chloronaphthalene	1,270	ug/kg	330	SW8270D	10/22/13 18:03	PL	91-58-7	1
4-Chloro-3-methylphenol	1,258	ug/kg	280	SW8270D	10/22/13 18:03	PL	59-50-7	1
2-Chlorophenol	1,210	ug/kg	330	SW8270D	10/22/13 18:03	PL	95-57-8	1
4-Chlorophenyl phenyl ether	1,355	ug/kg	330	SW8270D	10/22/13 18:03	PL	7005-72-3	1
Chrysene	1,464	ug/kg	330	SW8270D	10/22/13 18:03	PL	218-01-9	1
p,m-Cresol	2,361	ug/kg	330	SW8270D	10/22/13 18:03	PL	3/4-Cresol	1
o-Cresol	1,394	ug/kg	330	SW8270D	10/22/13 18:03	PL	95-48-7	1
Dibenzo(ah)anthracene	1,765	ug/kg	330	SW8270D	10/22/13 18:03	PL	53-70-3	1
Dibenzofuran	1,318	ug/kg	330	SW8270D	10/22/13 18:03	PL	132-64-9	1
di-n-Butyl phthalate	1,476	ug/kg	330	SW8270D	10/22/13 18:03	PL	84-74-2	1B
1,2-Dichlorobenzene	1,186	ug/kg	330	SW8270D	10/22/13 18:03	PL	95-50-1	1
1,3-Dichlorobenzene	1,153	ug/kg	330	SW8270D	10/22/13 18:03	PL	541-73-1	1
1,4-Dichlorobenzene	1,165	ug/kg	330	SW8270D	10/22/13 18:03	PL	106-46-7	1

1-Sample spiked at 50 mg/kg
B-Compound also found in associated method blank

Lab Sample ID: S58541.20 (continued)
Sample Tag: MW-83/84-29 (1-2) MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (Replicate 01) (continued)								
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	SW8270D	10/22/13 18:03	PL	91-94-1	1
2,4-Dichlorophenol	1,175	ug/kg	330	SW8270D	10/22/13 18:03	PL	120-83-2	1
Diethyl phthalate	1,507	ug/kg	330	SW8270D	10/22/13 18:03	PL	84-66-2	1B
2,4-Dimethylphenol	1,353	ug/kg	330	SW8270D	10/22/13 18:03	PL	105-67-9	1
Dimethyl phthalate	1,381	ug/kg	330	SW8270D	10/22/13 18:03	PL	131-11-3	1
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	SW8270D	10/22/13 18:03	PL	534-52-1	1
2,4-Dinitrophenol	Not detected	ug/kg	830	SW8270D	10/22/13 18:03	PL	51-28-5	1
2,4-Dinitrotoluene	1,322	ug/kg	330	SW8270D	10/22/13 18:03	PL	121-14-2	1
2,6-Dinitrotoluene	1,353	ug/kg	330	SW8270D	10/22/13 18:03	PL	606-20-2	1
1,2-Diphenylhydrazine	1,338	ug/kg	330	SW8270D	10/22/13 18:03	PL	122-66-7	1
di-n-Octyl phthalate	1,814	ug/kg	330	SW8270D	10/22/13 18:03	PL	117-84-0	1
Fluoranthene	1,381	ug/kg	330	SW8270D	10/22/13 18:03	PL	206-44-0	1
Fluorene	1,332	ug/kg	330	SW8270D	10/22/13 18:03	PL	86-73-7	1
Hexachlorobenzene	1,353	ug/kg	330	SW8270D	10/22/13 18:03	PL	118-74-1	1
Hexachlorobutadiene	1,212	ug/kg	330	SW8270D	10/22/13 18:03	PL	87-68-3	1
Hexachlorocyclopentadiene	693	ug/kg	330	SW8270D	10/22/13 18:03	PL	77-47-4	1
Hexachloroethane	1,179	ug/kg	330	SW8270D	10/22/13 18:03	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	1,437	ug/kg	330	SW8270D	10/22/13 18:03	PL	193-39-5	1
Isophorone	1,522	ug/kg	330	SW8270D	10/22/13 18:03	PL	78-59-1	1
2-Methylnaphthalene	1,239	ug/kg	330	SW8270D	10/22/13 18:03	PL	91-57-6	1
Naphthalene	1,225	ug/kg	330	SW8270D	10/22/13 18:03	PL	91-20-3	1
2-Nitroaniline	1,283	ug/kg	830	SW8270D	10/22/13 18:03	PL	88-74-4	1
3-Nitroaniline	1,122	ug/kg	830	SW8270D	10/22/13 18:03	PL	99-09-2	1
4-Nitroaniline	1,311	ug/kg	830	SW8270D	10/22/13 18:03	PL	100-01-6	1
Nitrobenzene	1,227	ug/kg	330	SW8270D	10/22/13 18:03	PL	98-95-3	1
2-Nitrophenol	1,188	ug/kg	330	SW8270D	10/22/13 18:03	PL	88-75-5	1
4-Nitrophenol	1,012	ug/kg	830	SW8270D	10/22/13 18:03	PL	100-02-7	1
N-Nitrosodiphenylamine	1,390	ug/kg	330	SW8270D	10/22/13 18:03	PL	86-30-6	1
N-Nitrosodi-n-propylamine	1,338	ug/kg	330	SW8270D	10/22/13 18:03	PL	621-64-7	1
Pentachlorophenol	662	ug/kg	330	SW8270D	10/22/13 18:03	PL	87-86-5	1
Phenanthrene	1,348	ug/kg	330	SW8270D	10/22/13 18:03	PL	85-01-8	1
Phenol	1,225	ug/kg	330	SW8270D	10/22/13 18:03	PL	108-95-2	1
Pyrene	1,437	ug/kg	330	SW8270D	10/22/13 18:03	PL	129-00-0	1
1,2,4-Trichlorobenzene	1,169	ug/kg	330	SW8270D	10/22/13 18:03	PL	120-82-1	1
2,4,5-Trichlorophenol	1,214	ug/kg	330	SW8270D	10/22/13 18:03	PL	95-95-4	1
2,4,6-Trichlorophenol	1,138	ug/kg	330	SW8270D	10/22/13 18:03	PL	88-06-2	1
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	2,800	ug/kg	200	SW8260B/5035	10/18/13 22:35	WAT	60-29-7	2
Acetone	2,000	ug/kg	1,000	SW8260B/5035	10/18/13 22:35	WAT	67-64-1	2
Methyl iodide	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	74-88-4	2
Carbon disulfide	2,500	ug/kg	300	SW8260B/5035	10/18/13 22:35	WAT	75-15-0	2
tert-Methyl butyl ether (MTBE)	2,700	ug/kg	200	SW8260B/5035	10/18/13 22:35	WAT	1634-04-4	2
Acrylonitrile	2,500	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	107-13-1	2
2-Butanone (MEK)	2,150	ug/kg	820	SW8260B/5035	10/18/13 22:35	WAT	78-93-3	2

1-Sample spiked at 50 mg/kg
B-Compound also found in associated method blank
2-Spiked at 2.7mg/kg

Lab Sample ID: S58541.20 (continued)
Sample Tag: MW-83/84-29 (1-2) MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dichlorodifluoromethane	3,000	ug/kg	300	SW8260B/5035	10/18/13 22:35	WAT	75-71-8	1
Chloromethane	2,700	ug/kg	300	SW8260B/5035	10/18/13 22:35	WAT	74-87-3	1
Vinyl chloride	2,530	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	75-01-4	1
Bromomethane	3,300	ug/kg	200	SW8260B/5035	10/18/13 22:35	WAT	74-83-9	1
Chloroethane	3,300	ug/kg	300	SW8260B/5035	10/18/13 22:35	WAT	75-00-3	1
Trichlorofluoromethane	3,200	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	75-69-4	1
1,1-Dichloroethene	2,880	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	75-35-4	1
Methylene chloride	2,400	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	75-09-2	1
trans-1,2-Dichloroethene	2,740	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	156-60-5	1
1,1-Dichloroethane	2,700	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	75-34-3	1
cis-1,2-Dichloroethene	2,660	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	156-59-2	1
Tetrahydrofuran	2,000	ug/kg	1,000	SW8260B/5035	10/18/13 22:35	WAT	109-99-9	1
Chloroform	2,760	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	67-66-3	1
Bromochloromethane	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	74-97-5	1
1,1,1-Trichloroethane	2,720	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	3,000	ug/kg	3,000	SW8260B/5035	10/18/13 22:35	WAT	108-10-1	1
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	10/18/13 22:35	WAT	591-78-6	1
Carbon tetrachloride	2,870	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	56-23-5	1
Benzene	2,620	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	71-43-2	1
1,2-Dichloroethane	2,840	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	107-06-2	1
Trichloroethene	2,720	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	79-01-6	1
1,2-Dichloropropane	2,720	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	78-87-5	1
Bromodichloromethane	2,600	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	75-27-4	1
Dibromomethane	2,800	ug/kg	300	SW8260B/5035	10/18/13 22:35	WAT	74-95-3	1
cis-1,3-Dichloropropene	2,660	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	10061-01-5	1
Toluene	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	108-88-3	1
trans-1,3-Dichloropropene	2,630	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	10061-02-6	1
1,1,2-Trichloroethane	2,670	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	79-00-5	1
Tetrachloroethene	2,670	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	2,570	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	110-57-6	1
Dibromochloromethane	2,600	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	124-48-1	1
1,2-Dibromoethane	2,660	ug/kg	20	SW8260B/5035	10/18/13 22:35	WAT	106-93-4	1M
Chlorobenzene	2,610	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	2,900	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	630-20-6	1
Ethylbenzene	2,680	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	100-41-4	1
p,m-Xylene	5,400	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT		1
o-Xylene	2,730	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	95-47-6	1
Styrene	2,790	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	100-42-5	1
Isopropylbenzene	2,700	ug/kg	300	SW8260B/5035	10/18/13 22:35	WAT	98-82-8	1
Bromoform	2,600	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	2,700	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	79-34-5	1
1,2,3-Trichloropropane	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	96-18-4	1
n-Propylbenzene	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	103-65-1	1
Bromobenzene	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	108-86-1	1
1,3,5-Trimethylbenzene	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	108-67-8	1
tert-Butylbenzene	2,860	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	98-06-6	1
1,2,4-Trimethylbenzene	2,800	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	95-63-6	1

1-Spiked at 2.7mg/kg
M-Result reported to MDL not RDL

Lab Sample ID: S58541.20 (continued)
Sample Tag: MW-83/84-29 (1-2) MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
sec-Butylbenzene	2,760	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	135-98-8	1
p-Isopropyltoluene	2,900	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	99-87-6	1
1,3-Dichlorobenzene	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	541-73-1	1
1,4-Dichlorobenzene	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	106-46-7	1
1,2-Dichlorobenzene	2,700	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	95-50-1	1
1,2,3-Trimethylbenzene	2,800	ug/kg	100	SW8260B/5035	10/18/13 22:35	WAT	526-73-8	1
n-Butylbenzene	2,820	ug/kg	50	SW8260B/5035	10/18/13 22:35	WAT	104-51-8	1
Hexachloroethane	2,700	ug/kg	300	SW8260B/5035	10/18/13 22:35	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	2,900	ug/kg	300	SW8260B/5035	10/18/13 22:35	WAT	96-12-8	1
1,2,4-Trichlorobenzene	2,830	ug/kg	360	SW8260B/5035	10/18/13 22:35	WAT	120-82-1	1
1,2,3-Trichlorobenzene	2,850	ug/kg	360	SW8260B/5035	10/18/13 22:35	WAT	87-61-6	1
Naphthalene	2,980	ug/kg	360	SW8260B/5035	10/18/13 22:35	WAT	91-20-3	1
2-Methylnaphthalene	3,240	ug/kg	360	SW8260B/5035	10/18/13 22:35	WAT	91-57-6	1

1-Spiked at 2.7mg/kg

Analytical Laboratory Report

Lab Sample ID: S58541.21
Sample Tag: MW-83/84-29 (6-7)
Collected Date/Time: 10/15/2013 09:35
Matrix: Soil
COC Reference: 76855

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR
1	40ml Glass	MeOH	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3550B	10/18/13 14:06	EMR		
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Mercury Digestion	Completed			SW7471A	10/21/13 11:25	CCM		
Metal Digestion	Completed			3050B	10/24/13 10:00	PER		
Inorganics								
Cyanide	Not detected	mg/kg	0.1	335.4/4500-CN-E	10/21/13 12:18	JDP	57-12-5	
Total Solids	92	%	1	Std M 2540 B	10/16/13 16:30	ASB		
Metals								
Antimony	Not detected	mg/kg	0.50	SW6020	10/24/13 13:02	PER	7440-36-0	
Arsenic	0.94	mg/kg	0.20	SW6020	10/24/13 13:02	PER	7440-38-2	
Barium	5.80	mg/kg	1.0	SW6020	10/24/13 13:02	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	SW6020	10/24/13 13:02	PER	7440-41-7	
Cadmium	Not detected	mg/kg	0.20	SW6020	10/24/13 13:02	PER	7440-43-9	
Chromium	1.24	mg/kg	0.50	SW6020	10/24/13 13:02	PER	7440-47-3	
Cobalt	0.85	mg/kg	0.50	SW6020	10/24/13 13:02	PER	7440-48-4	
Copper	4.35	mg/kg	0.50	SW6020	10/24/13 13:02	PER	7440-50-8	
Lead	2.95	mg/kg	0.30	SW6020	10/24/13 13:02	PER	7439-92-1	
Manganese	123	mg/kg	0.50	SW6020	10/24/13 13:02	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.050	SW7471A	10/21/13 16:29	CCM	7439-97-6	
Nickel	3.32	mg/kg	0.50	SW6020	10/24/13 13:02	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.40	SW6020	10/24/13 13:02	PER	7782-49-2	
Silver	Not detected	mg/kg	0.20	SW6020	10/24/13 13:02	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	SW6020	10/24/13 13:02	PER	7440-28-0	
Vanadium	2.45	mg/kg	0.50	SW6020	10/24/13 13:02	PER	7440-62-2	
Zinc	8.48	mg/kg	1.0	SW6020	10/24/13 13:02	PER	7440-66-6	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/22/13 16:09	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/22/13 16:09	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/22/13 16:09	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/22/13 16:09	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/22/13 16:09	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/22/13 16:09	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	10/22/13 16:09	JAN	11096-82-5	
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	83-32-9	X

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S58541.21 (continued)
Sample Tag: MW-83/84-29 (6-7)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Acenaphthylene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	208-96-8	X
Anthracene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	120-12-7	X
Benzo(a)anthracene	1,200	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	56-55-3	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	205-99-2	XI
Benzo(k)fluoranthene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	207-08-9	XI
Benzo(ghi)perylene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	191-24-2	XI
Benzo(a)pyrene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	50-32-8	XI
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	108-60-1	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	117-81-7	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	101-55-3	X
Butyl benzyl phthalate	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	85-68-7	X
4-Chloroaniline	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	106-47-8	X
2-Chloronaphthalene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	91-58-7	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	59-50-7	X
2-Chlorophenol	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	95-57-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	7005-72-3	X
Chrysene	2,000	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	218-01-9	X
p,m-Cresol	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	3/4-Cresol	X
o-Cresol	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	95-48-7	X
Dibenzo(ah)anthracene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	53-70-3	XI
Dibenzofuran	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	132-64-9	X
di-n-Butyl phthalate	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	84-74-2	X
1,2-Dichlorobenzene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	95-50-1	X
1,3-Dichlorobenzene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	541-73-1	X
1,4-Dichlorobenzene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	106-46-7	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	SW8270C	10/21/13 22:28	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	120-83-2	X
Diethyl phthalate	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	84-66-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	105-67-9	X
Dimethyl phthalate	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	131-11-3	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	534-52-1	X
2,4-Dinitrophenol	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	606-20-2	X
1,2-Diphenylhydrazine	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	122-66-7	X
di-n-Octyl phthalate	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	117-84-0	XI
Fluoranthene	1,700	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	206-44-0	X
Fluorene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	193-39-5	XI
Isophorone	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	91-57-6	X

X-Elevated reporting limit due to matrix interference
I-Matrix interference with internal standard

Lab Sample ID: S58541.21 (continued)
Sample Tag: MW-83/84-29 (6-7)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Naphthalene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	91-20-3	X
2-Nitroaniline	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	88-74-4	X
3-Nitroaniline	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	100-01-6	X
Nitrobenzene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	98-95-3	X
2-Nitrophenol	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	88-75-5	X
4-Nitrophenol	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	100-02-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	2,200	SW8270C	10/21/13 22:28	PL	86-30-6	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	621-64-7	X
Pentachlorophenol	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	87-86-5	X
Phenanthrene	2,800	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	85-01-8	X
Phenol	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	108-95-2	X
Pyrene	2,400	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	129-00-0	X
1,2,4-Trichlorobenzene	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	120-82-1	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,100	SW8270C	10/21/13 22:28	PL	88-06-2	X
Semi-Volatile Organics - MDEQ (Replicate 01)								
Acenaphthene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	208-96-8	X
Anthracene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	120-12-7	X
Benzo(a)anthracene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	56-55-3	X
Benzo(b)fluoranthene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	205-99-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	207-08-9	X
Benzo(ghi)perylene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	191-24-2	X
Benzo(a)pyrene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	50-32-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	108-60-1	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	117-81-7	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	101-55-3	X
Butyl benzyl phthalate	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	85-68-7	X
4-Chloroaniline	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	106-47-8	X
2-Chloronaphthalene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	91-58-7	X
4-Chloro-3-methylphenol	Not detected	ug/kg	280	SW8270D	10/22/13 21:24	PL	59-50-7	X
2-Chlorophenol	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	95-57-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	7005-72-3	X
Chrysene	2,681	ug/kg	330	SW8270D	10/22/13 21:24	PL	218-01-9	X
p,m-Cresol	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	3/4-Cresol	X
o-Cresol	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	95-48-7	X
Dibenzo(ah)anthracene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	132-64-9	X
di-n-Butyl phthalate	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	84-74-2	X
1,2-Dichlorobenzene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	95-50-1	X
1,3-Dichlorobenzene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	541-73-1	X
1,4-Dichlorobenzene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	106-46-7	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	SW8270D	10/22/13 21:24	PL	91-94-1	X
2,4-Dichlorophenol	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	120-83-2	X

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S58541.21 (continued)
Sample Tag: MW-83/84-29 (6-7)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (Replicate 01) (continued)								
Diethyl phthalate	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	84-66-2	X
2,4-Dimethylphenol	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	105-67-9	X
Dimethyl phthalate	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	131-11-3	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	SW8270D	10/22/13 21:24	PL	534-52-1	X
2,4-Dinitrophenol	Not detected	ug/kg	830	SW8270D	10/22/13 21:24	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	606-20-2	X
1,2-Diphenylhydrazine	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	122-66-7	X
di-n-Octyl phthalate	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	117-84-0	X
Fluoranthene	2,391	ug/kg	330	SW8270D	10/22/13 21:24	PL	206-44-0	X
Fluorene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	193-39-5	X
Isophorone	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	91-57-6	X
Naphthalene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	91-20-3	X
2-Nitroaniline	Not detected	ug/kg	830	SW8270D	10/22/13 21:24	PL	88-74-4	X
3-Nitroaniline	Not detected	ug/kg	830	SW8270D	10/22/13 21:24	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	830	SW8270D	10/22/13 21:24	PL	100-01-6	X
Nitrobenzene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	98-95-3	X
2-Nitrophenol	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	88-75-5	X
4-Nitrophenol	Not detected	ug/kg	830	SW8270D	10/22/13 21:24	PL	100-02-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	86-30-6	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	621-64-7	X
Pentachlorophenol	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	87-86-5	X
Phenanthrene	3,732	ug/kg	330	SW8270D	10/22/13 21:24	PL	85-01-8	X
Phenol	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	108-95-2	X
Pyrene	2,862	ug/kg	330	SW8270D	10/22/13 21:24	PL	129-00-0	X
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	120-82-1	X
2,4,5-Trichlorophenol	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	330	SW8270D	10/22/13 21:24	PL	88-06-2	X
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	10/18/13 17:09	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	10/18/13 17:09	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	10/18/13 17:09	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	10/18/13 17:09	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	880	SW8260B/5035	10/18/13 17:09	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 17:09	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 17:09	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	10/18/13 17:09	WAT	74-83-9	

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S58541.21 (continued)
Sample Tag: MW-83/84-29 (6-7)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 17:09	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	10/18/13 17:09	WAT	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	10/18/13 17:09	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	10/18/13 17:09	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 17:09	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260B/5035	10/18/13 17:09	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT		
o-Xylene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	10/18/13 17:09	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	95-50-1	

M-Result reported to MDL not RDL

Lab Sample ID: S58541.21 (continued)
Sample Tag: MW-83/84-29 (6-7)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:09	WAT	526-73-8	
n-Butylbenzene	70	ug/kg	60	SW8260B/5035	10/18/13 17:09	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	10/18/13 17:09	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 17:09	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	390	SW8260B/5035	10/18/13 17:09	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	390	SW8260B/5035	10/18/13 17:09	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	390	SW8260B/5035	10/18/13 17:09	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	390	SW8260B/5035	10/18/13 17:09	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58541.22
Sample Tag: MW-83/84-29 (4-5)
Collected Date/Time: 10/15/2013 10:00
Matrix: Soil
COC Reference: 76855

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR
1	40ml Glass	MeOH	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3550B	10/18/13 14:06	EMR		
Extraction, PCB	Completed			3550B	10/21/13 10:00	RGS		
Mercury Digestion	Completed			SW7471A	10/21/13 11:25	CCM		
Metal Digestion	Completed			3050B	10/24/13 10:00	PER		
Inorganics								
Cyanide	Not detected	mg/kg	0.1	335.4/4500-CN-E	10/21/13 12:20	JDP	57-12-5	
Total Solids	96	%	1	Std M 2540 B	10/16/13 16:30	ASB		
Metals								
Antimony	Not detected	mg/kg	0.50	SW6020	10/24/13 13:06	PER	7440-36-0	
Arsenic	0.87	mg/kg	0.20	SW6020	10/24/13 13:06	PER	7440-38-2	
Barium	3.93	mg/kg	1.0	SW6020	10/24/13 13:06	PER	7440-39-3	
Beryllium	Not detected	mg/kg	0.20	SW6020	10/24/13 13:06	PER	7440-41-7	
Cadmium	Not detected	mg/kg	0.20	SW6020	10/24/13 13:06	PER	7440-43-9	
Chromium	0.90	mg/kg	0.50	SW6020	10/24/13 13:06	PER	7440-47-3	
Cobalt	0.69	mg/kg	0.50	SW6020	10/24/13 13:06	PER	7440-48-4	
Copper	4.42	mg/kg	0.50	SW6020	10/24/13 13:06	PER	7440-50-8	
Lead	2.74	mg/kg	0.30	SW6020	10/24/13 13:06	PER	7439-92-1	
Manganese	91.5	mg/kg	0.50	SW6020	10/24/13 13:06	PER	7439-96-5	
Mercury	Not detected	mg/kg	0.050	SW7471A	10/21/13 16:31	CCM	7439-97-6	
Nickel	3.78	mg/kg	0.50	SW6020	10/24/13 13:06	PER	7440-02-0	
Selenium	Not detected	mg/kg	0.40	SW6020	10/24/13 13:06	PER	7782-49-2	
Silver	Not detected	mg/kg	0.20	SW6020	10/24/13 13:06	PER	7440-22-4	
Thallium	Not detected	mg/kg	0.20	SW6020	10/24/13 13:06	PER	7440-28-0	
Vanadium	2.10	mg/kg	0.50	SW6020	10/24/13 13:06	PER	7440-62-2	
Zinc	7.95	mg/kg	1.0	SW6020	10/24/13 13:06	PER	7440-66-6	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/22/13 16:19	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	10/22/13 16:19	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	10/22/13 16:19	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	10/22/13 16:19	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	10/22/13 16:19	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	10/22/13 16:19	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	10/22/13 16:19	JAN	11096-82-5	
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	83-32-9	X

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S58541.22 (continued)
Sample Tag: MW-83/84-29 (4-5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Acenaphthylene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	208-96-8	X
Anthracene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	120-12-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	56-55-3	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	205-99-2	XI
Benzo(k)fluoranthene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	207-08-9	XI
Benzo(ghi)perylene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	191-24-2	XI
Benzo(a)pyrene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	50-32-8	XI
bis(2-Chloroethoxy)methane	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	108-60-1	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	117-81-7	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	101-55-3	X
Butyl benzyl phthalate	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	85-68-7	X
4-Chloroaniline	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	106-47-8	X
2-Chloronaphthalene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	91-58-7	X
4-Chloro-3-methylphenol	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	59-50-7	X
2-Chlorophenol	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	95-57-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	7005-72-3	X
Chrysene	1,800	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	218-01-9	X
p,m-Cresol	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	3/4-Cresol	X
o-Cresol	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	95-48-7	X
Dibenzo(ah)anthracene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	53-70-3	XI
Dibenzofuran	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	132-64-9	X
di-n-Butyl phthalate	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	84-74-2	X
1,2-Dichlorobenzene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	95-50-1	X
1,3-Dichlorobenzene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	541-73-1	X
1,4-Dichlorobenzene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	106-46-7	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	SW8270C	10/21/13 23:01	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	120-83-2	X
Diethyl phthalate	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	84-66-2	X
2,4-Dimethylphenol	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	105-67-9	X
Dimethyl phthalate	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	131-11-3	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	534-52-1	X
2,4-Dinitrophenol	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	606-20-2	X
1,2-Diphenylhydrazine	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	122-66-7	X
di-n-Octyl phthalate	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	117-84-0	XI
Fluoranthene	1,500	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	206-44-0	X
Fluorene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	193-39-5	XI
Isophorone	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	91-57-6	X

X-Elevated reporting limit due to matrix interference
I-Matrix interference with internal standard

Lab Sample ID: S58541.22 (continued)
Sample Tag: MW-83/84-29 (4-5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Naphthalene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	91-20-3	X
2-Nitroaniline	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	88-74-4	X
3-Nitroaniline	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	100-01-6	X
Nitrobenzene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	98-95-3	X
2-Nitrophenol	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	88-75-5	X
4-Nitrophenol	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	100-02-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	2,100	SW8270C	10/21/13 23:01	PL	86-30-6	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	621-64-7	X
Pentachlorophenol	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	87-86-5	X
Phenanthrene	2,500	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	85-01-8	X
Phenol	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	108-95-2	X
Pyrene	2,200	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	129-00-0	X
1,2,4-Trichlorobenzene	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	120-82-1	X
2,4,5-Trichlorophenol	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	1,000	SW8270C	10/21/13 23:01	PL	88-06-2	X
Semi-Volatile Organics - MDEQ (Replicate 01)								
Acenaphthene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	208-96-8	X
Anthracene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	120-12-7	X
Benzo(a)anthracene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	56-55-3	X
Benzo(b)fluoranthene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	205-99-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	207-08-9	X
Benzo(ghi)perylene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	191-24-2	X
Benzo(a)pyrene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	50-32-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	108-60-1	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	117-81-7	X
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	101-55-3	X
Butyl benzyl phthalate	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	85-68-7	X
4-Chloroaniline	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	106-47-8	X
2-Chloronaphthalene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	91-58-7	X
4-Chloro-3-methylphenol	Not detected	ug/kg	280	SW8270D	10/22/13 21:57	PL	59-50-7	X
2-Chlorophenol	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	95-57-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	7005-72-3	X
Chrysene	2,014	ug/kg	330	SW8270D	10/22/13 21:57	PL	218-01-9	X
p,m-Cresol	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	3/4-Cresol	X
o-Cresol	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	95-48-7	X
Dibenzo(ah)anthracene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	53-70-3	X
Dibenzofuran	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	132-64-9	X
di-n-Butyl phthalate	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	84-74-2	X
1,2-Dichlorobenzene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	95-50-1	X
1,3-Dichlorobenzene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	541-73-1	X
1,4-Dichlorobenzene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	106-46-7	X
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	SW8270D	10/22/13 21:57	PL	91-94-1	X
2,4-Dichlorophenol	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	120-83-2	X

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S58541.22 (continued)
Sample Tag: MW-83/84-29 (4-5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (Replicate 01) (continued)								
Diethyl phthalate	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	84-66-2	X
2,4-Dimethylphenol	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	105-67-9	X
Dimethyl phthalate	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	131-11-3	X
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	SW8270D	10/22/13 21:57	PL	534-52-1	X
2,4-Dinitrophenol	Not detected	ug/kg	830	SW8270D	10/22/13 21:57	PL	51-28-5	X
2,4-Dinitrotoluene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	606-20-2	X
1,2-Diphenylhydrazine	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	122-66-7	X
di-n-Octyl phthalate	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	117-84-0	X
Fluoranthene	1,701	ug/kg	330	SW8270D	10/22/13 21:57	PL	206-44-0	X
Fluorene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	77-47-4	X
Hexachloroethane	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	193-39-5	X
Isophorone	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	91-57-6	X
Naphthalene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	91-20-3	X
2-Nitroaniline	Not detected	ug/kg	830	SW8270D	10/22/13 21:57	PL	88-74-4	X
3-Nitroaniline	Not detected	ug/kg	830	SW8270D	10/22/13 21:57	PL	99-09-2	X
4-Nitroaniline	Not detected	ug/kg	830	SW8270D	10/22/13 21:57	PL	100-01-6	X
Nitrobenzene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	98-95-3	X
2-Nitrophenol	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	88-75-5	X
4-Nitrophenol	Not detected	ug/kg	830	SW8270D	10/22/13 21:57	PL	100-02-7	X
N-Nitrosodiphenylamine	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	86-30-6	X
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	621-64-7	X
Pentachlorophenol	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	87-86-5	X
Phenanthrene	2,604	ug/kg	330	SW8270D	10/22/13 21:57	PL	85-01-8	X
Phenol	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	108-95-2	X
Pyrene	2,083	ug/kg	330	SW8270D	10/22/13 21:57	PL	129-00-0	X
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	120-82-1	X
2,4,5-Trichlorophenol	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/kg	330	SW8270D	10/22/13 21:57	PL	88-06-2	X
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	10/18/13 17:29	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	10/18/13 17:29	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	10/18/13 17:29	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	10/18/13 17:29	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	830	SW8260B/5035	10/18/13 17:29	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 17:29	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 17:29	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	10/18/13 17:29	WAT	74-83-9	

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S58541.22 (continued)
Sample Tag: MW-83/84-29 (4-5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 17:29	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	10/18/13 17:29	WAT	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	10/18/13 17:29	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	10/18/13 17:29	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 17:29	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260B/5035	10/18/13 17:29	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT		
o-Xylene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	10/18/13 17:29	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	95-50-1	

M-Result reported to MDL not RDL

Lab Sample ID: S58541.22 (continued)
Sample Tag: MW-83/84-29 (4-5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 17:29	WAT	526-73-8	
n-Butylbenzene	90	ug/kg	60	SW8260B/5035	10/18/13 17:29	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 17:29	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 17:29	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	360	SW8260B/5035	10/18/13 17:29	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	360	SW8260B/5035	10/18/13 17:29	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	360	SW8260B/5035	10/18/13 17:29	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	360	SW8260B/5035	10/18/13 17:29	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58541.23
Sample Tag: SB-36-16 (4-5)
Collected Date/Time: 10/15/2013 14:00
Matrix: Soil
COC Reference: 76855

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR
1	40ml Glass	MeOH	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3550B	10/18/13 13:33	EMR		
PNA Extraction	Completed			3550B	10/18/13 13:32	EMR		
Inorganics								
Total Solids	95	%	1	Std M 2540 B	10/16/13 16:30	ASB		
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	13,422,000	ug/kg	175,000	SW8015M	10/20/13 00:27	PL		EY
TPH DRO (C10-C28) (Replicate 01)	21,486,000	ug/kg	877,000	SW8015M	10/21/13 14:20	PL		Y
TPH ORO (C28-C36)	9,032,000	ug/kg	175,000	SW8015M	10/20/13 00:27	PL		EY
TPH ORO (C28-C36) (Replicate 01)	17,862,000	ug/kg	877,000	SW8015M	10/21/13 14:20	PL		Y
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	1,800	SW8270C	10/20/13 00:27	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	1,800	SW8270C	10/20/13 00:27	PL	208-96-8	X
Anthracene	Not detected	ug/kg	1,800	SW8270C	10/20/13 00:27	PL	120-12-7	X
Benzo(a)anthracene	Not detected	ug/kg	1,800	SW8270C	10/20/13 00:27	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	1,800	SW8270C	10/20/13 00:27	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	1,800	SW8270C	10/20/13 00:27	PL	205-99-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	1,800	SW8270C	10/20/13 00:27	PL	207-08-9	X
Benzo(ghi)perylene	Not detected	ug/kg	1,800	SW8270C	10/20/13 00:27	PL	191-24-2	X
Chrysene	Not detected	ug/kg	1,800	SW8270C	10/20/13 00:27	PL	218-01-9	X
Dibenzo(ah)anthracene	Not detected	ug/kg	1,800	SW8270C	10/20/13 00:27	PL	53-70-3	X
Fluoranthene	Not detected	ug/kg	1,800	SW8270C	10/20/13 00:27	PL	206-44-0	X
Fluorene	Not detected	ug/kg	1,800	SW8270C	10/20/13 00:27	PL	86-73-7	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	1,800	SW8270C	10/20/13 00:27	PL	193-39-5	X
Naphthalene	Not detected	ug/kg	1,800	SW8270C	10/20/13 00:27	PL	91-20-3	X
Phenanthrene	3,100	ug/kg	1,800	SW8270C	10/20/13 00:27	PL	85-01-8	X
Pyrene	Not detected	ug/kg	1,800	SW8270C	10/20/13 00:27	PL	129-00-0	X
2-Methylnaphthalene	2,000	ug/kg	1,800	SW8270C	10/20/13 00:27	PL	91-57-6	X
1-Methylnaphthalene	2,500	ug/kg	1,800	SW8270C	10/20/13 00:27	PL	90-12-0	X
Organics - Volatiles								
TPH GRO (C6-C10)	Not detected	ug/kg	6,000	SW8015M	10/18/13 16:08	WAT		
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	10/18/13 16:08	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	10/18/13 16:08	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	10/18/13 16:08	WAT	75-15-0	

E-Concentration exceeds calibration range Y-Elevated reporting limit due to high target concentration
X-Elevated reporting limit due to matrix interference

Lab Sample ID: S58541.23 (continued)
Sample Tag: SB-36-16 (4-5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	10/18/13 16:08	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	830	SW8260B/5035	10/18/13 16:08	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 16:08	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 16:08	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	10/18/13 16:08	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 16:08	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	10/18/13 16:08	WAT	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	74-97-5	
1,1,1-Trichloroethane	100	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	10/18/13 16:08	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	10/18/13 16:08	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 16:08	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260B/5035	10/18/13 16:08	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT		
o-Xylene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	10/18/13 16:08	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	108-67-8	

M-Result reported to MDL not RDL

Lab Sample ID: S58541.23 (continued)
Sample Tag: SB-36-16 (4-5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
tert-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:08	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	10/18/13 16:08	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 16:08	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 16:08	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	360	SW8260B/5035	10/18/13 16:08	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	360	SW8260B/5035	10/18/13 16:08	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	360	SW8260B/5035	10/18/13 16:08	WAT	91-20-3	
2-Methylnaphthalene	1,940	ug/kg	360	SW8260B/5035	10/18/13 16:08	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58541.24
Sample Tag: DUP-2
Collected Date/Time: 10/15/2013 00:01
Matrix: Soil
COC Reference: 76855

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR
1	40ml Glass	MeOH	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3550B	10/18/13 13:33	EMR		
PNA Extraction	Completed			3550B	10/18/13 13:32	EMR		
Inorganics								
Total Solids	95	%	1	Std M 2540 B	10/16/13 16:30	ASB		
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	17,406,000	ug/kg	263,000	SW8015M	10/20/13 00:52	PL		EY
TPH DRO (C10-C28) (Replicate 01)	33,613,000	ug/kg	1,316,000	SW8015M	10/21/13 14:45	PL		Y
TPH ORO (C28-C36)	12,635,000	ug/kg	263,000	SW8015M	10/20/13 00:52	PL		EY
TPH ORO (C28-C36) (Replicate 01)	27,998,000	ug/kg	1,316,000	SW8015M	10/21/13 14:45	PL		Y
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	2,600	SW8270C	10/20/13 00:52	PL	83-32-9	X
Acenaphthylene	Not detected	ug/kg	2,600	SW8270C	10/20/13 00:52	PL	208-96-8	X
Anthracene	Not detected	ug/kg	2,600	SW8270C	10/20/13 00:52	PL	120-12-7	X
Benzo(a)anthracene	Not detected	ug/kg	2,600	SW8270C	10/20/13 00:52	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/kg	2,600	SW8270C	10/20/13 00:52	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/kg	2,600	SW8270C	10/20/13 00:52	PL	205-99-2	X
Benzo(k)fluoranthene	Not detected	ug/kg	2,600	SW8270C	10/20/13 00:52	PL	207-08-9	X
Benzo(ghi)perylene	Not detected	ug/kg	2,600	SW8270C	10/20/13 00:52	PL	191-24-2	X
Chrysene	Not detected	ug/kg	2,600	SW8270C	10/20/13 00:52	PL	218-01-9	X
Dibenzo(ah)anthracene	Not detected	ug/kg	2,600	SW8270C	10/20/13 00:52	PL	53-70-3	X
Fluoranthene	Not detected	ug/kg	2,600	SW8270C	10/20/13 00:52	PL	206-44-0	X
Fluorene	Not detected	ug/kg	2,600	SW8270C	10/20/13 00:52	PL	86-73-7	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	2,600	SW8270C	10/20/13 00:52	PL	193-39-5	X
Naphthalene	Not detected	ug/kg	2,600	SW8270C	10/20/13 00:52	PL	91-20-3	X
Phenanthrene	3,800	ug/kg	2,600	SW8270C	10/20/13 00:52	PL	85-01-8	X
Pyrene	Not detected	ug/kg	2,600	SW8270C	10/20/13 00:52	PL	129-00-0	X
2-Methylnaphthalene	2,700	ug/kg	2,600	SW8270C	10/20/13 00:52	PL	91-57-6	X
1-Methylnaphthalene	3,100	ug/kg	2,600	SW8270C	10/20/13 00:52	PL	90-12-0	X
Organics - Volatiles								
TPH GRO (C6-C10)	Not detected	ug/kg	5,000	SW8015M	10/18/13 16:28	WAT		
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	10/18/13 16:28	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	10/18/13 16:28	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	10/18/13 16:28	WAT	75-15-0	

E-Concentration exceeds calibration range Y-Elevated reporting limit due to high target concentration
X-Elevated reporting limit due to matrix interference

Lab Sample ID: S58541.24 (continued)
Sample Tag: DUP-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	10/18/13 16:28	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	820	SW8260B/5035	10/18/13 16:28	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 16:28	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 16:28	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	10/18/13 16:28	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 16:28	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	10/18/13 16:28	WAT	109-99-9	
Chloroform	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	74-97-5	
1,1,1-Trichloroethane	170	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	10/18/13 16:28	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	10/18/13 16:28	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	56-23-5	
Benzene	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 16:28	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260B/5035	10/18/13 16:28	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	630-20-6	
Ethylbenzene	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT		
o-Xylene	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	95-47-6	
Styrene	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	10/18/13 16:28	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	108-67-8	

M-Result reported to MDL not RDL

Lab Sample ID: S58541.24 (continued)
Sample Tag: DUP-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
tert-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	10/18/13 16:28	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	10/18/13 16:28	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 16:28	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	10/18/13 16:28	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	360	SW8260B/5035	10/18/13 16:28	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	360	SW8260B/5035	10/18/13 16:28	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	360	SW8260B/5035	10/18/13 16:28	WAT	91-20-3	
2-Methylnaphthalene	2,650	ug/kg	360	SW8260B/5035	10/18/13 16:28	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58541.25
Sample Tag: TRIP BLANK
Collected Date/Time: 10/15/2013 00:01
Matrix: Liquid
COC Reference: 76855

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	10/17/13 12:40	JGH		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	10/16/13 18:13	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/16/13 18:13	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/16/13 18:13	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/16/13 18:13	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/16/13 18:13	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/16/13 18:13	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/16/13 18:13	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/16/13 18:13	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/16/13 18:13	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/16/13 18:13	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/16/13 18:13	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/16/13 18:13	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/16/13 18:13	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/16/13 18:13	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	10/16/13 18:13	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/16/13 18:13	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	106-93-4	

Lab Sample ID: S58541.25 (continued)
Sample Tag: TRIP BLANK

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/16/13 18:13	JGH		
o-Xylene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/16/13 18:13	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/16/13 18:13	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/16/13 18:13	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/16/13 18:13	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/16/13 18:13	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/16/13 18:13	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/16/13 18:13	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	10/16/13 18:13	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	10/16/13 18:13	JGH	91-57-6	

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

76854

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Drew Shaw, Erin Kozik, Amee Freeman
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 2355e Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241 | P.O. NO.: ARCADIS WA054
E-MAIL ADDRESS: erin.kozik@arcadis-us.com drew.shaw@arcadis-us.com amee.freeman@arcadis-us.com | QUOTE NO.: ARCADIS WA054

INVOICE TO

☑ SAME

CONTACT NAME: Christi Kiker
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | E-MAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B006-1410.2013.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: A. Richmond / A. Richmond

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB	VOC	SVOC	PAL METALS	PNA	TPH-GRO	TPH-DRO	TPH-ORO	Special Instructions
58541.01	10/14/13	1120	SB-10-09 (2-4)	S	1	✓							✓								HOLD
.02	10/14/13	1130	SB-10-09 (4-6)	S	1	✓							✓								
.03	10/14/13	1140	SB-10-09 (6-8)	S	1	✓							✓								
.04	10/14/13	1150	SB-10-09 (8-10)	S	1	✓							✓								
.05	10/14/13	1200	SB-10-09 (10-12)	S	1	✓							✓								
.06	10/14/13	—	DUP-1	S	1	✓							✓								
.07	10/14/13	1440	SB-10-10 (2-4)	S	1	✓							✓								HOLD
.08	10/14/13	1450	SB-10-10 (4-6)	S	1	✓							✓								
.09	10/14/13	1500	SB-10-10 (6-8)	S	1	✓							✓								
.10	10/14/13	1505	SB-10-10 (8-10)	S	1	✓							✓								
.11	10/14/13	1510	SB-10-10 (10-12)	S	1	✓							✓								
.12	10/14/13	1620	SB-10-11 (4-6)	S	1	✓							✓								

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☑ Sampler ARCADIS	DATE 10/14/13	TIME 1700
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10/15/13	TIME 1430
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Merit	DATE 10/15/13	TIME 1545
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10-15-13	TIME 1545
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 5.1
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.
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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 2 OF 2

76855

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Drew Shaw, Erin Kozak, Amee Freeman
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241 | P.O. NO.: ARCADIS WA034
E-MAIL ADDRESS: erin.kozak@arcadis-us.com; drew.shaw@arcadis-us.com, amee.freeman@arcadis-us.com | QUOTE NO.: ARCADIS WA034

INVOICE TO

CONTACT NAME: Christi Kiker ☑ SAME
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | E-MAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B0064410.2013.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: A. Richmond / A Richmond

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB	VOC	SVOC	PAL METALS	PNA	TPH-GRO	TPH-DRO	TPH-ORO			Special Instructions
58541.13	10/14/13	1630	SB-10-11(6-8)	S	1	✓							✓										
.14	10/14/13	1635	SB-10-11(8-10)	S	1	✓							✓										
.17,.16,.15	10/14/13	1640	SB-10-11(10-12)	S	3	✓							✓										MS/MSD
.18,.19,.20	10/15/13	0910	MW-83/84-29 ~~(6-7)~~ AR 10/15/13 (1-2)	S	6	✓					✓		✓	✓	✓	✓							MS/MSD
.21	10/15/13	0935	MW-83/84-29(6-7)	S	2	✓					✓		✓	✓	✓	✓							
.22	10/15/13	1000	MW-83/84-29(4-5)	S	2	✓					✓		✓	✓	✓	✓							
.23	10/15/13	1400	SB-36-16(4-5)	S	2	✓					✓		~~✓~~ AR 10/30	✓			✓	✓	✓	✓			
.24	10/15/13	—	DUP-2	S	2	✓					✓		~~✓~~ AR 10/31	✓			✓	✓	✓	✓			
.25	10/15/13	—	TRIP BLANK		1									✓	✓								

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] ARCADIS ☑ Sampler — DATE: 10/14/13 TIME: 1700
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature] — DATE: 10/14/13 TIME: 1450

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] — DATE: 10/15/13 TIME: 1545
RECEIVED BY: SIGNATURE/ORGANIZATION: Talinda Faust — DATE: 10/15/13 TIME: 1545

RELINQUISHED BY: SIGNATURE/ORGANIZATION: — DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: — DATE: TIME:

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: TEMP. ON ARRIVAL 5.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S58985.01(01)
Generated on 11/19/2013

Report to

Attention: Micki Maki
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1909 FAX: 248-994-2241
Email: micki.maki@ARCADIS-US.com

Addtional Contacts: Erin Kozak, Drew Shaw, Amee Freeman

Report produced by

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Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S58985.01-S58985.10
Project: B0064410.2013.00206/ Buick City RACER Flint, MI
Collected Date: 11/12/2013
Submitted Date/Time: 11/13/2013 14:15
Sampled by: A. Richmond
P.O. #: B0064410.2013.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (10 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S58985.01	TW-83/84-49-1(7-9)	Soil	11/12/2013 11:20
S58985.02	TW-83/84-49-1(9-11)	Soil	11/12/2013 11:30
S58985.03	TW-83/84-49-1(11-13)	Soil	11/12/2013 11:35
S58985.04	TW-83/84-49-1(13-15)	Soil	11/12/2013 11:40
S58985.05	TW-83/84-49-7(5-7)	Soil	11/12/2013 15:45
S58985.06	TW-83/84-49-7(7-9)	Soil	11/12/2013 15:50
S58985.07	TW-83/84-49-7(9-11)	Soil	11/12/2013 15:55
S58985.08	TW-83/84-49-7(11-13)	Soil	11/12/2013 16:00
S58985.09	TW-83/84-49-7(15-17)	Soil	11/12/2013 16:05
S58985.10	TW-83/84-49-7(3-5)	Soil	11/12/2013 16:10

Analytical Laboratory Report

Lab Sample ID: S58985.01
Sample Tag: TW-83/84-49-1(7-9)
Collected Date/Time: 11/12/2013 11:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/13 10:37	ADB		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	11/05/13 12:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/18/13 13:52	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/18/13 13:52	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/18/13 13:52	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/18/13 13:52	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/18/13 13:52	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/18/13 13:52	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/18/13 13:52	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58985.02
Sample Tag: TW-83/84-49-1(9-11)
Collected Date/Time: 11/12/2013 11:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/13 10:37	ADB		
Inorganics								
Total Solids	72	%	1	Std M 2540 B	11/05/13 12:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/18/13 14:02	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/18/13 14:02	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/18/13 14:02	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/18/13 14:02	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/18/13 14:02	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/18/13 14:02	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/18/13 14:02	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58985.03
Sample Tag: TW-83/84-49-1(11-13)
Collected Date/Time: 11/12/2013 11:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/13 10:37	ADB		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	11/05/13 12:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/18/13 14:13	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/18/13 14:13	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/18/13 14:13	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/18/13 14:13	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/18/13 14:13	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/18/13 14:13	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/18/13 14:13	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58985.04
Sample Tag: TW-83/84-49-1(13-15)
Collected Date/Time: 11/12/2013 11:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/13 10:37	ADB		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	11/05/13 12:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/18/13 14:23	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/18/13 14:23	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/18/13 14:23	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/18/13 14:23	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/18/13 14:23	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/18/13 14:23	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/18/13 14:23	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58985.05
Sample Tag: TW-83/84-49-7(5-7)
Collected Date/Time: 11/12/2013 15:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/13 10:37	ADB		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	11/05/13 12:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/18/13 15:33	JAN	12674-11-2	
PCB-1242	500	ug/kg	330	SW8082A	11/18/13 15:33	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/18/13 15:33	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/18/13 15:33	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/18/13 15:33	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/18/13 15:33	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/18/13 15:33	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58985.06
Sample Tag: TW-83/84-49-7(7-9)
Collected Date/Time: 11/12/2013 15:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/13 10:37	ADB		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	11/05/13 12:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/18/13 14:34	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/18/13 14:34	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/18/13 14:34	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/18/13 14:34	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/18/13 14:34	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/18/13 14:34	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/18/13 14:34	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58985.07
Sample Tag: TW-83/84-49-7(9-11)
Collected Date/Time: 11/12/2013 15:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/13 10:37	ADB		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	11/05/13 12:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/18/13 15:01	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/18/13 15:01	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/18/13 15:01	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/18/13 15:01	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/18/13 15:01	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/18/13 15:01	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/18/13 15:01	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58985.08
Sample Tag: TW-83/84-49-7(11-13)
Collected Date/Time: 11/12/2013 16:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/13 10:37	ADB		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	11/05/13 12:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/18/13 15:11	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/18/13 15:11	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/18/13 15:11	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/18/13 15:11	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/18/13 15:11	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/18/13 15:11	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/18/13 15:11	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58985.09
Sample Tag: TW-83/84-49-7(15-17)
Collected Date/Time: 11/12/2013 16:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/13 10:37	ADB		
Inorganics								
Total Solids	78	%	1	Std M 2540 B	11/05/13 12:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/18/13 15:23	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/18/13 15:23	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/18/13 15:23	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/18/13 15:23	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/18/13 15:23	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/18/13 15:23	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/18/13 15:23	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S58985.10
Sample Tag: TW-83/84-49-7(3-5)
Collected Date/Time: 11/12/2013 16:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/13 10:37	ADB		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	11/05/13 12:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	11/18/13 16:10	JAN	12674-11-2	Y
PCB-1242	3,600	ug/kg	600	SW8082A	11/18/13 16:10	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	11/18/13 16:10	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	11/18/13 16:10	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	11/18/13 16:10	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	600	SW8082A	11/18/13 16:10	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	11/18/13 16:10	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Merit
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. Page # 1 of 1 C.O.C I.D.#

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Amee Freeman, Erin Kozak, Drew Shaw
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241
P.O. NO.: ARCADIS WA039
EMAIL ADDRES: micki.maki@arcadis-us.com; erin.kozak@arcadis-us.com; drew.shaw@arcadis-us.com; amee.freeman@arcadis-us.com
QUOTE NO.: ARCADIS WA039

INVOICE TO

☑ SAME

CONTACT NAME: Christi Kiker
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B0064410.2013.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: A. Richmond

TURNAROUND TIME REQUIRED: ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Codes: GW=GroundWater WW=Waste Water S=Soil L=Liquid SD=Solid SL=Sludge DW=Drinking Water O=Oil A=Air W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

Special Instructions

MERIT LAB NO FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB
58985.01	11/12/13	1120	TW-83/84-49-1 (7-9)	S	1	1							✓
.02		1130	TW-83/84-49-1 (9-11)	S	1	1							✓
.03		1135	TW-83/84-49-1 (11-13)	S	1	1							✓
.04		1140	TW-83/84-49-1 (13-15)	S	1	1							✓
.05		1545	TW-83/84-49-7 (5-7)	S	1	1							✓
.06		1550	TW-83/84-49-7 (7-9)	S	1	1							✓
.07		1555	TW-83/84-49-7 (9-11)	S	1	1							✓
.08		1600	TW-83/84-49-7 (11-13)	S	1	1							✓
.09		1605	TW-83/84-49-7 (15-17)	S	1	1							✓
.10		1610	TW-83/84-49-7 (3-5)	S	1	1							✓

Relinquished By: Signature/Organization	☑ Sampler / ARCADIS	Date 11/12/13	Time 1700	
Received By: Signature/Organization	Novi Cold Storage / ARCADIS	Date 11/12/13	Time 1830	
Relinquished By: Signature/Organization	/ ARCADIS	Date 11-13-13	Time 1140	
Received By: Signature/Organization	Merit	Date 11-13-13	Time 1140	

Relinquished By: Signature/Organization: Merit — Date 11-13-13
Received By: Signature/Organization: Keum George — Date 11/13/13 — Time 1415

Seal No. | Seal Intact ☐ Yes ☐ No | Initials
Seal No. | Seal Intact ☐ Yes ☐ No | Initials

Notes: Temp. on arrival 5.4

Analytical Laboratory Report

Report ID: S59022.01(01)
Generated on 11/20/2013

Report to

Attention: Micki Maki
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1909 FAX: 248-994-2241
Email: micki.maki@ARCADIS-US.com

Addtional Contacts: Erin Kozak, Drew Shaw, Amee Freeman

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S59022.01-S59022.17
Project: B0064410.2013.00206/ Buick City RACER Flint, MI
Collected Date: 11/15/2013
Submitted Date/Time: 11/15/2013 15:00
Sampled by: A. Richmond
P.O. #: B0064410.2013.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (17 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S59022.01	TW-83/84-49-6(7-9)	Soil	11/15/2013 10:00
S59022.02	TW-83/84-49-6(9-11)	Soil	11/15/2013 10:05
S59022.03	TW-83/84-49-6(11-13)	Soil	11/15/2013 10:10
S59022.04	TW-83/84-49-6(13-15)	Soil	11/15/2013 10:15
S59022.05	TW-83/84-49-6(15-17)	Soil	11/15/2013 10:20
S59022.06	TW-83/84-49-6(17-19)	Soil	11/15/2013 10:25
S59022.07	TW-83/84-49-4(7-9)	Soil	11/15/2013 11:00
S59022.08	TW-83/84-49-4(9-11)	Soil	11/15/2013 11:05
S59022.09	TW-83/84-49-4(11-13)	Soil	11/15/2013 11:10
S59022.10	TW-83/84-49-4(13-15)	Soil	11/15/2013 11:15
S59022.11	TW-83/84-49-4(15-17)	Soil	11/15/2013 11:20
S59022.12	TW-83/84-49-2(5-7)	Soil	11/15/2013 11:50
S59022.13	TW-83/84-49-2(7-9)	Soil	11/15/2013 11:55
S59022.14	TW-83/84-49-2(9-11)	Soil	11/15/2013 12:00
S59022.15	TW-83/84-49-2(11-13)	Soil	11/15/2013 12:05
S59022.16	TW-83/84-49-2(13-15)	Soil	11/15/2013 12:10
S59022.17	TW-83/84-49-2(15-17)	Soil	11/15/2013 12:15

Analytical Laboratory Report

Lab Sample ID: S59022.01
Sample Tag: TW-83/84-49-6(7-9)
Collected Date/Time: 11/15/2013 10:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/13 10:47	ADB		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	11/18/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/13 11:23	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/13 11:23	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/13 11:23	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/13 11:23	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/13 11:23	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/13 11:23	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/13 11:23	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59022.02
Sample Tag: TW-83/84-49-6(9-11)
Collected Date/Time: 11/15/2013 10:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/13 10:47	ADB		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	11/18/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/19/13 16:46	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/19/13 16:46	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/19/13 16:46	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/19/13 16:46	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/19/13 16:46	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/19/13 16:46	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/19/13 16:46	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59022.03
Sample Tag: TW-83/84-49-6(11-13)
Collected Date/Time: 11/15/2013 10:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/13 10:47	ADB		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	11/18/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/19/13 16:25	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/19/13 16:25	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/19/13 16:25	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/19/13 16:25	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/19/13 16:25	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/19/13 16:25	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/19/13 16:25	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59022.04
Sample Tag: TW-83/84-49-6(13-15)
Collected Date/Time: 11/15/2013 10:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/13 10:47	ADB		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	11/18/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/19/13 16:57	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/19/13 16:57	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/19/13 16:57	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/19/13 16:57	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/19/13 16:57	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/19/13 16:57	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/19/13 16:57	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59022.05
Sample Tag: TW-83/84-49-6(15-17)
Collected Date/Time: 11/15/2013 10:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/13 10:47	ADB		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	11/18/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/19/13 17:08	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/19/13 17:08	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/19/13 17:08	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/19/13 17:08	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/19/13 17:08	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/19/13 17:08	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/19/13 17:08	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59022.06
Sample Tag: TW-83/84-49-6(17-19)
Collected Date/Time: 11/15/2013 10:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/13 10:47	ADB		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	11/18/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/19/13 17:18	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/19/13 17:18	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/19/13 17:18	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/19/13 17:18	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/19/13 17:18	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/19/13 17:18	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/19/13 17:18	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59022.07
Sample Tag: TW-83/84-49-4(7-9)
Collected Date/Time: 11/15/2013 11:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/13 10:47	ADB		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	11/18/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/13 12:18	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/13 12:18	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/13 12:18	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/13 12:18	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/13 12:18	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/13 12:18	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/13 12:18	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59022.08
Sample Tag: TW-83/84-49-4(9-11)
Collected Date/Time: 11/15/2013 11:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/13 10:47	ADB		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	11/18/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/19/13 16:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/19/13 16:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/19/13 16:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/19/13 16:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/19/13 16:36	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/19/13 16:36	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/19/13 16:36	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59022.09
Sample Tag: TW-83/84-49-4(11-13)
Collected Date/Time: 11/15/2013 11:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/13 10:47	ADB		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	11/18/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/13 12:29	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/13 12:29	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/13 12:29	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/13 12:29	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/13 12:29	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/13 12:29	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/13 12:29	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59022.10
Sample Tag: TW-83/84-49-4(13-15)
Collected Date/Time: 11/15/2013 11:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/13 10:47	ADB		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	11/18/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/19/13 17:29	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/19/13 17:29	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/19/13 17:29	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/19/13 17:29	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/19/13 17:29	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/19/13 17:29	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/19/13 17:29	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59022.11
Sample Tag: TW-83/84-49-4(15-17)
Collected Date/Time: 11/15/2013 11:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/13 10:47	ADB		
Inorganics								
Total Solids	77	%	1	Std M 2540 B	11/18/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/19/13 17:39	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/19/13 17:39	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/19/13 17:39	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/19/13 17:39	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/19/13 17:39	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/19/13 17:39	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/19/13 17:39	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59022.12
Sample Tag: TW-83/84-49-2(5-7)
Collected Date/Time: 11/15/2013 11:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/13 10:47	ADB		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	11/18/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/13 12:39	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/13 12:39	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/13 12:39	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/13 12:39	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/13 12:39	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/13 12:39	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/13 12:39	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59022.13
Sample Tag: TW-83/84-49-2(7-9)
Collected Date/Time: 11/15/2013 11:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/13 10:47	ADB		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	11/18/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/13 12:50	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/13 12:50	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/13 12:50	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/13 12:50	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/13 12:50	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/13 12:50	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/13 12:50	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59022.14
Sample Tag: TW-83/84-49-2(9-11)
Collected Date/Time: 11/15/2013 12:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/13 10:47	ADB		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	11/18/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/13 12:07	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/13 12:07	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/13 12:07	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/13 12:07	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/13 12:07	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/13 12:07	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/13 12:07	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59022.15
Sample Tag: TW-83/84-49-2(11-13)
Collected Date/Time: 11/15/2013 12:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/13 10:47	ADB		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	11/18/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/13 13:00	JAN	12674-11-2	
PCB-1242	400	ug/kg	330	SW8082A	11/20/13 13:00	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/13 13:00	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/13 13:00	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/13 13:00	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/13 13:00	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/13 13:00	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59022.16
Sample Tag: TW-83/84-49-2(13-15)
Collected Date/Time: 11/15/2013 12:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/13 10:47	ADB		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	11/18/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/13 13:11	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/13 13:11	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/13 13:11	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/13 13:11	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/13 13:11	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/13 13:11	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/13 13:11	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59022.17
Sample Tag: TW-83/84-49-2(15-17)
Collected Date/Time: 11/15/2013 12:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/13 10:47	ADB		
Inorganics								
Total Solids	79	%	1	Std M 2540 B	11/18/13 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/13 13:21	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/13 13:21	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/13 13:21	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/13 13:21	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/13 13:21	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/13 13:21	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/13 13:21	JAN	11096-82-5	

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C.O.C. Page # 1 of ____ C.O.C I.D.# ____

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Amee Freeman, Erin Kozak, Drew Shaw
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241
P.O. NO.: ARCADIS WA039
EMAIL ADDRES: micki.maki@arcadis-us.com; erin.kozak@arcadis-us.com; drew.shaw@arcadis-us.com; amee.freeman@arcadis-us.com
QUOTE NO.: ARCADIS WA039

INVOICE TO

CONTACT NAME: Christi Kiker
☑ SAME
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B0064410.2013.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: A. Richmond

TURNAROUND TIME REQUIRED: ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Codes: GW=Groundwater, WW=Waste Water, S=Soil, L=Liquid, SD=Solid, SL=Sludge, DW=Drinking Water, O=Oil, A=Air, W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☑ Other
Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB
59022.01	11/15/13	1000	TW-83/84-46-6 (7-9)	S	1	1							✓
.02		1005	TW-83/84-46-6 (9-11)	S	1	1							✓
.03		1010	TW-83/84-46-6 (11-13)	S	1	1							✓
.04		1015	TW-83/84-46-6 (13-15)	S	1	1							✓
.05		1020	TW-83/84-46-6 (15-17)	S	1	1							✓
.06		1025	TW-83/84-46-6 (17-19)	S	1	1							✓
.07		1100	TW-83/84-46-4 (7-9)	S	1	1							X
.08		1105	TW-83/84-46-4 (9-11)	S	1	1							X
.09		1110	TW-83/84-46-4 (11-13)	S	1	1							X
.10		1115	TW-83/84-46-4 (13-15)	S	1	1							X
.11		1120	TW-83/84-46-4 (15-17)	S	1	1							X
.12		1150	TW-83/84-46-2 (5-7)	S	1	1							X
.13		1155	TW-83/84-46-2 (7-9)	S	1	1							X

Relinquished By: Signature/Organization: [signature] ☑ Sampler Date: 11/15/13 Time: 1345
Received By: Signature/Organization: [signature] Date: 11-15-13 Time: 1400
Relinquished By: Signature/Organization: [signature] Barbara Ball Date: 11/15/13 Time: 1500
Received By: Signature/Organization: [signature] Date: 11/15/13 Time: 15:00
Relinquished By: Signature/Organization: Date: Time:
Received By: Signature/Organization: Date: Time:

Seal No: Seal Intact: ☐ Yes ☐ No Initials:
Seal No: Seal Intact: ☐ Yes ☐ No Initials:

Notes: Temp. on arrival 4°C

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C.O.C. Page # 2 of ____ C.O.C I.D.# ____

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Amee Freeman, Erin Kozak, Drew Shaw
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO: 248.994.2240 | FAX NO.: 248.994.2241 | P.O. NO.: ARCADIS WA039
EMAIL ADDRES: micki.maki@arcadis-us.com; erin.kozak@arcadis-us.com; drew.shaw@arcadis-us.com; amee.freeman@arcadis-us.com
QUOTE NO: ARCADIS WA039

INVOICE TO

☑ SAME

CONTACT NAME: Christi Kiker
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B0064410.2013.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: A. Richmond

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Codes: GW=Groundwater, WW=Waste Water, S=Soil, L=Liquid, SD=Solid, SL=Sludge, DW=Drinking Water, O=Oil, A=Air, W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

Special Instructions:

MERI LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB
59022.14	11/15/13	1200	TW-83/84-49(9-11)	S	1	1							X
.15		1205	TW-83/84-49-2(11-13)	S	1	1							X
.16		1210	TW-83/84-49-2(13-15)	S	1	1							X
.17		1215	TW-83/84-49-2(15-17)	S	1	1							X

Relinquished By: Signature/Organization: [signature] ARCADIS ☑ Sampler — Date: 11/15/13 — Time: 1345
Received By: Signature/Organization: [signature] — Date: 11-15-13 — Time: 1400

Relinquished By: Signature/Organization: [signature] — Date: 11-15-13 — Time: 1500
Received By: Signature/Organization: Barbara Ball — Date: 11/15/13 — Time: 15:00

Relinquished By: Signature/Organization: — Date: — Time:
Received By: Signature/Organization: — Date: — Time:

Seal No. — Seal Intact ☐ Yes ☐ No — Initials
Seal No — Seal Intact ☐ Yes ☐ No — Initials

Notes: Temp. on arrival 4.1°

Analytical Laboratory Report

Report ID: S59054.01(01)
Generated on 11/21/2013

Report to

Attention: Micki Maki
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1909 FAX: 248-994-2241
Email: micki.maki@ARCADIS-US.com

Addtional Contacts: Amee Freeman, Erin Kozak, Drew Shaw

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S59054.01-S59054.11
Project: B0064410.2013.00206 / Buick City RACER Flint, MI
Collected Date: 11/15/2013
Submitted Date/Time: 11/18/2013 15:40
Sampled by: A. Richmond
P.O. #: B0064410.2013.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (11 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S59054.01	TW-83/84-49-5(7-9)	Soil	11/15/2013 13:45
S59054.02	TW-83/84-49-5(9-11)	Soil	11/15/2013 13:50
S59054.03	TW-83/84-49-5(11-13)	Soil	11/15/2013 13:55
S59054.04	TW-83/84-49-5(13-15)	Soil	11/15/2013 14:00
S59054.05	TW-83/84-49-5(15-17)	Soil	11/15/2013 14:05
S59054.06	TW-83/84-49-3(5-7)	Soil	11/15/2013 14:40
S59054.07	TW-83/84-49-3(7-9)	Soil	11/15/2013 14:45
S59054.08	TW-83/84-49-3(9-11)	Soil	11/15/2013 14:50
S59054.09	TW-83/84-49-3(11-13)	Soil	11/15/2013 14:55
S59054.10	TW-83/84-49-3(13-15)	Soil	11/15/2013 15:00
S59054.11	TW-83/84-49-3(15-17)	Soil	11/15/2013 15:05

Analytical Laboratory Report

Lab Sample ID: S59054.01
Sample Tag: TW-83/84-49-5(7-9)
Collected Date/Time: 11/15/2013 13:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/13 11:56	ADB		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	11/18/13 17:40	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/21/13 11:04	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/21/13 11:04	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/21/13 11:04	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/21/13 11:04	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/21/13 11:04	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/21/13 11:04	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/21/13 11:04	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59054.02
Sample Tag: TW-83/84-49-5(9-11)
Collected Date/Time: 11/15/2013 13:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/13 11:56	ADB		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	11/18/13 17:40	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/21/13 12:29	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/21/13 12:29	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/21/13 12:29	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/21/13 12:29	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/21/13 12:29	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/21/13 12:29	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/21/13 12:29	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59054.03
Sample Tag: TW-83/84-49-5(11-13)
Collected Date/Time: 11/15/2013 13:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/13 11:56	ADB		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	11/18/13 17:40	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/21/13 10:53	JAN	12674-11-2	
PCB-1242	300	ug/kg	330	SW8082A	11/21/13 10:53	JAN	53469-21-9	b
PCB-1221	Not detected	ug/kg	330	SW8082A	11/21/13 10:53	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/21/13 10:53	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/21/13 10:53	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/21/13 10:53	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/21/13 10:53	JAN	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S59054.04
Sample Tag: TW-83/84-49-5(13-15)
Collected Date/Time: 11/15/2013 14:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/13 11:57	ADB		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	11/18/13 17:40	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/13 13:45	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/13 13:45	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/13 13:45	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/13 13:45	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/13 13:45	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/13 13:45	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/13 13:45	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59054.05
Sample Tag: TW-83/84-49-5(15-17)
Collected Date/Time: 11/15/2013 14:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/13 11:57	ADB		
Inorganics								
Total Solids	78	%	1	Std M 2540 B	11/18/13 17:40	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/13 13:33	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/13 13:33	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/13 13:33	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/13 13:33	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/13 13:33	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/13 13:33	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/13 13:33	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59054.06
Sample Tag: TW-83/84-49-3(5-7)
Collected Date/Time: 11/15/2013 14:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/13 11:57	ADB		
Inorganics								
Total Solids	80	%	1	Std M 2540 B	11/18/13 17:40	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/21/13 11:53	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/21/13 11:53	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/21/13 11:53	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/21/13 11:53	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/21/13 11:53	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/21/13 11:53	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/21/13 11:53	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59054.07
Sample Tag: TW-83/84-49-3(7-9)
Collected Date/Time: 11/15/2013 14:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/13 11:57	ADB		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	11/18/13 17:40	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/21/13 12:18	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/21/13 12:18	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/21/13 12:18	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/21/13 12:18	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/21/13 12:18	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/21/13 12:18	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/21/13 12:18	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59054.08
Sample Tag: TW-83/84-49-3(9-11)
Collected Date/Time: 11/15/2013 14:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/13 11:57	ADB		
Inorganics								
Total Solids	79	%	1	Std M 2540 B	11/18/13 17:40	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/21/13 13:24	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/21/13 13:24	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/21/13 13:24	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/21/13 13:24	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/21/13 13:24	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/21/13 13:24	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/21/13 13:24	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59054.09
Sample Tag: TW-83/84-49-3(11-13)
Collected Date/Time: 11/15/2013 14:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/13 11:57	ADB		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	11/18/13 17:40	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/21/13 11:14	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/21/13 11:14	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/21/13 11:14	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/21/13 11:14	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/21/13 11:14	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/21/13 11:14	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/21/13 11:14	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59054.10
Sample Tag: TW-83/84-49-3(13-15)
Collected Date/Time: 11/15/2013 15:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/13 11:57	ADB		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	11/18/13 17:40	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/21/13 12:42	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/21/13 12:42	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/21/13 12:42	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/21/13 12:42	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/21/13 12:42	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/21/13 12:42	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/21/13 12:42	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59054.11
Sample Tag: TW-83/84-49-3(15-17)
Collected Date/Time: 11/15/2013 15:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/13 11:57	ADB		
Inorganics								
Total Solids	80	%	1	Std M 2540 B	11/18/13 17:40	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/13 13:44	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/13 13:44	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/13 13:44	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/13 13:44	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/13 13:44	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/13 13:44	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/13 13:44	JAN	11096-82-5	

Merit
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. Page # 1 of 1 C.O.C I.D.#

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Amee Freeman, Erin Kozak, Drew Shaw
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241
P.O. NO.: ARCADIS WA039
EMAIL ADDRES: micki.maki@arcadis-us.com; erin.kozak@arcadis-us.com; drew.shaw@arcadis-us.com; amee.freeman@arcadis-us.com
QUOTE NO.: ARCADIS WA039

INVOICE TO

CONTACT NAME: Christi Kiker ☑ SAME
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME: B0064410.2013.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: A. Richmond

TURNAROUND TIME REQUIRED: ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Code: GW=Groundwater WW=Waste Water S=Soil L=Liquid SD=Solid SL=Sludge DW=Drinking Water O=Oil A=Air W=Waste

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB
59054.01	11/15/13	1345	TW-33/84-49-5 (7-9)	S	1	1							✓
.02		1350	TW-33/84-49-5 (9-11)	S	1	1							✓
.03		1355	TW-33/84-49-5 (11-13)	S	1	1							✓
.04		1400	TW-33/84-49-5 (13-15)	S	1	1							✓
.05		1405	TW-33/84-49-5 (15-17)	S	1	1							✓
.06		1470	TW-33/84-49-3 (5-7)	S	1	1							✓
.07		1445	TW-33/84-49-3 ~~(7-5)~~ (7-9) MH/SD	S	1	1							✓
.08		1450	TW-33/84-49-3 ~~(9-7)~~ (9-11) MH/SD	S	1	1							✓
.09		1455	TW-33/84-49-3 (11-13)	S	1	1							✓
.10		1500	TW-33/84-49-3 (13-15)	S	1	1							✓
.11		1505	TW-33/84-49-3 (15-17)	S	1	1							✓

Relinquished By / Signature/Organization	☑ Sampler / ARCADIS	Date 11/15/13	Time 1530
Received By / Signature/Organization	Cold Storage / ARCADIS	Date 11/15/13	Time 1800
Relinquished By / Signature/Organization	Cold Storage	Date	Time
Received By / Signature/Organization		Date 11/18/13	Time 1250

Relinquished By / Signature/Organization		Date 11-18-13	Time 1540
Received By / Signature/Organization	Kevin Kleage	Date 11/18/13	Time 1540
Seal No.	Seal Intact ☐ Yes ☐ No	Initials	
Seal No.	Seal Intact ☐ Yes ☐ No	Initials	

Notes: Temp. on arrival 4°

Analytical Laboratory Report

Report ID: S59255.01(01)
Generated on 12/11/2013

Report to

Attention: Micki Maki
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1909 FAX: 248-994-2241
Email: micki.maki@ARCADIS-US.com

Addtional Contacts: Amee Freeman, Drew Shaw

Report produced by

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East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S59255.01-S59255.25
Project: B0064410.2013.00206.WA039
Collected Date: 12/02/2013 - 12/04/2013
Submitted Date/Time: 12/04/2013 14:45
Sampled by: Drew Shaw
P.O. #: B0064410.2013.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified.Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (25 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S59255.01	TW-10-08-1(4-6)	Soil	12/02/2013 12:50
S59255.02	TW-10-08-1(6-8)	Soil	12/02/2013 12:55
S59255.03	TW-10-08-1(8-10)	Soil	12/02/2013 13:00
S59255.04	TW-10-08-1(10-12)	Soil	12/02/2013 13:05
S59255.05	TW-10-08-2(4-6)	Soil	12/03/2013 10:10
S59255.06	TW-10-08-2(8-10)	Soil	12/03/2013 10:15
S59255.07	TW-10-08-2(10-12)	Soil	12/03/2013 10:20
S59255.08	TW-10-08-3(4-6)	Soil	12/03/2013 11:50
S59255.09	TW-10-08-3(8-10)	Soil	12/03/2013 11:55
S59255.10	TW-10-08-3(10-12)	Soil	12/03/2013 12:00
S59255.11	TW-10-08-4(4-6)	Soil	12/03/2013 14:20
S59255.12	TW-10-08-4(8-10)	Soil	12/03/2013 14:25
S59255.13	TW-10-08-4(10-12)	Soil	12/03/2013 14:30
S59255.14	TW-10-08-5(4-6)	Soil	12/03/2013 16:10
S59255.15	TW-10-08-5(8-10)	Soil	12/03/2013 16:15
S59255.16	TW-10-08-5(10-12)	Soil	12/03/2013 16:20
S59255.17	TW-10-08-6(4-6)	Soil	12/04/2013 09:10
S59255.18	TW-10-08-6(8-10)	Soil	12/04/2013 09:15
S59255.19	TW-10-08-6(8-10) MS	Soil	12/04/2013 09:15
S59255.20	TW-10-08-6(8-10) MSD	Soil	12/04/2013 09:15
S59255.21	TW-10-08-6(10-12)	Soil	12/04/2013 09:20
S59255.22	DUP-01	Soil	12/04/2013 00:01
S59255.23	TW-10-08-7(4-6)	Soil	12/04/2013 11:00
S59255.24	TW-10-08-7(8-10)	Soil	12/04/2013 11:05
S59255.25	TW-10-08-7(10-12)	Soil	12/04/2013 11:10

Analytical Laboratory Report

Lab Sample ID: S59255.01
Sample Tag: TW-10-08-1(4-6)
Collected Date/Time: 12/02/2013 12:50
Matrix: Soil
COC Reference: 75613

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/06/13 10:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/06/13 16:08	JAN	2.943	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/06/13 16:08	JAN	4.625	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/06/13 16:08	JAN	3.142	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/06/13 16:08	JAN	3.664	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/06/13 16:08	JAN	4.518	Y
PCB-1254	5,000	ug/kg	600	SW8082A	12/06/13 16:08	JAN	5.706	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/06/13 16:08	JAN	2.183	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59255.02
Sample Tag: TW-10-08-1(6-8)
Collected Date/Time: 12/02/2013 12:55
Matrix: Soil
COC Reference: 75613

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/06/13 10:00	RGS		
Inorganics								
Total Solids	80	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	12/06/13 16:18	JAN	2.943	Y
PCB-1242	Not detected	ug/kg	1,000	SW8082A	12/06/13 16:18	JAN	4.625	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	12/06/13 16:18	JAN	3.142	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	12/06/13 16:18	JAN	3.664	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	12/06/13 16:18	JAN	4.518	Y
PCB-1254	6,000	ug/kg	1,000	SW8082A	12/06/13 16:18	JAN	5.706	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	12/06/13 16:18	JAN	2.183	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59255.03
Sample Tag: TW-10-08-1(8-10)
Collected Date/Time: 12/02/2013 13:00
Matrix: Soil
COC Reference: 75613

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/06/13 10:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/13 12:59	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/13 12:59	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/13 12:59	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/13 12:59	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/13 12:59	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/13 12:59	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/13 12:59	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59255.04
Sample Tag: TW-10-08-1(10-12)
Collected Date/Time: 12/02/2013 13:05
Matrix: Soil
COC Reference: 75613

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/06/13 10:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/06/13 16:57	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/06/13 16:57	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/06/13 16:57	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/06/13 16:57	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/06/13 16:57	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/06/13 16:57	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/06/13 16:57	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59255.05
Sample Tag: TW-10-08-2(4-6)
Collected Date/Time: 12/03/2013 10:10
Matrix: Soil
COC Reference: 75613

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/06/13 10:00	RGS		
Inorganics								
Total Solids	67	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	21,000	SW8082A	12/09/13 13:46	JAN	2.943	Y
PCB-1242	Not detected	ug/kg	21,000	SW8082A	12/09/13 13:46	JAN	4.625	Y
PCB-1221	Not detected	ug/kg	21,000	SW8082A	12/09/13 13:46	JAN	3.142	Y
PCB-1232	Not detected	ug/kg	21,000	SW8082A	12/09/13 13:46	JAN	3.664	Y
PCB-1248	Not detected	ug/kg	21,000	SW8082A	12/09/13 13:46	JAN	4.518	Y
PCB-1254	127,000	ug/kg	21,000	SW8082A	12/09/13 13:46	JAN	5.706	Y
PCB-1260	Not detected	ug/kg	21,000	SW8082A	12/09/13 13:46	JAN	2.183	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59255.06
Sample Tag: TW-10-08-2(8-10)
Collected Date/Time: 12/03/2013 10:15
Matrix: Soil
COC Reference: 75613

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/06/13 10:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/13 14:25	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/13 14:25	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/13 14:25	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/13 14:25	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/13 14:25	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/13 14:25	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/13 14:25	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59255.07
Sample Tag: TW-10-08-2(10-12)
Collected Date/Time: 12/03/2013 10:20
Matrix: Soil
COC Reference: 75613

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/06/13 10:00	RGS		
Inorganics								
Total Solids	68	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	12/09/13 14:39	JAN	2.943	Y
PCB-1242	Not detected	ug/kg	1,000	SW8082A	12/09/13 14:39	JAN	4.625	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	12/09/13 14:39	JAN	3.142	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	12/09/13 14:39	JAN	3.664	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	12/09/13 14:39	JAN	4.518	Y
PCB-1254	7,000	ug/kg	1,000	SW8082A	12/09/13 14:39	JAN	5.706	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	12/09/13 14:39	JAN	2.183	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59255.08
Sample Tag: TW-10-08-3(4-6)
Collected Date/Time: 12/03/2013 11:50
Matrix: Soil
COC Reference: 75613

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/06/13 10:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/06/13 16:29	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/06/13 16:29	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/06/13 16:29	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/06/13 16:29	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/06/13 16:29	JAN	4.518	
PCB-1254	300	ug/kg	330	SW8082A	12/06/13 16:29	JAN	5.706	b
PCB-1260	Not detected	ug/kg	330	SW8082A	12/06/13 16:29	JAN	2.183	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S59255.09
Sample Tag: TW-10-08-3(8-10)
Collected Date/Time: 12/03/2013 11:55
Matrix: Soil
COC Reference: 75613

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/06/13 10:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	12/09/13 14:52	JAN	2.943	Y
PCB-1242	Not detected	ug/kg	1,000	SW8082A	12/09/13 14:52	JAN	4.625	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	12/09/13 14:52	JAN	3.142	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	12/09/13 14:52	JAN	3.664	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	12/09/13 14:52	JAN	4.518	Y
PCB-1254	4,000	ug/kg	1,000	SW8082A	12/09/13 14:52	JAN	5.706	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	12/09/13 14:52	JAN	2.183	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59255.10
Sample Tag: TW-10-08-3(10-12)
Collected Date/Time: 12/03/2013 12:00
Matrix: Soil
COC Reference: 75613

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/06/13 10:00	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/13 15:18	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/13 15:18	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/13 15:18	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/13 15:18	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/13 15:18	JAN	4.518	
PCB-1254	600	ug/kg	330	SW8082A	12/09/13 15:18	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/13 15:18	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59255.11
Sample Tag: TW-10-08-4(4-6)
Collected Date/Time: 12/03/2013 14:20
Matrix: Soil
COC Reference: 75613

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/06/13 10:00	RGS		
Inorganics								
Total Solids	80	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/06/13 16:42	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/06/13 16:42	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/06/13 16:42	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/06/13 16:42	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/06/13 16:42	JAN	4.518	
PCB-1254	1,400	ug/kg	330	SW8082A	12/06/13 16:42	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/06/13 16:42	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59255.12
Sample Tag: TW-10-08-4(8-10)
Collected Date/Time: 12/03/2013 14:25
Matrix: Soil
COC Reference: 75613

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/06/13 10:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/13 15:32	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/13 15:32	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/13 15:32	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/13 15:32	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/13 15:32	JAN	4.518	
PCB-1254	500	ug/kg	330	SW8082A	12/09/13 15:32	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/13 15:32	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59255.13
Sample Tag: TW-10-08-4(10-12)
Collected Date/Time: 12/03/2013 14:30
Matrix: Soil
COC Reference: 75614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/06/13 10:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/13 15:46	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/13 15:46	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/13 15:46	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/13 15:46	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/13 15:46	JAN	4.518	
PCB-1254	800	ug/kg	330	SW8082A	12/09/13 15:46	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/13 15:46	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59255.14
Sample Tag: TW-10-08-5(4-6)
Collected Date/Time: 12/03/2013 16:10
Matrix: Soil
COC Reference: 75614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/06/13 10:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/06/13 17:07	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/06/13 17:07	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/06/13 17:07	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/06/13 17:07	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/06/13 17:07	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/06/13 17:07	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/06/13 17:07	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59255.15
Sample Tag: TW-10-08-5(8-10)
Collected Date/Time: 12/03/2013 16:15
Matrix: Soil
COC Reference: 75614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/06/13 10:00	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/13 15:59	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/13 15:59	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/13 15:59	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/13 15:59	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/13 15:59	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/13 15:59	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/13 15:59	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59255.16
Sample Tag: TW-10-08-5(10-12)
Collected Date/Time: 12/03/2013 16:20
Matrix: Soil
COC Reference: 75614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/13 08:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/10/13 15:10	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/10/13 15:10	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/10/13 15:10	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/10/13 15:10	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/10/13 15:10	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/10/13 15:10	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/10/13 15:10	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59255.17
Sample Tag: TW-10-08-6(4-6)
Collected Date/Time: 12/04/2013 09:10
Matrix: Soil
COC Reference: 75614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/13 08:00	RGS		
Inorganics								
Total Solids	80	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/13 12:02	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/13 12:02	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/13 12:02	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/13 12:02	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/13 12:02	JAN	4.518	
PCB-1254	600	ug/kg	330	SW8082A	12/11/13 12:02	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/13 12:02	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59255.18
Sample Tag: TW-10-08-6(8-10)
Collected Date/Time: 12/04/2013 09:15
Matrix: Soil
COC Reference: 75614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/06/13 10:00	RGS		
Inorganics								
Total Solids	89	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/06/13 14:23	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/06/13 14:23	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/06/13 14:23	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/06/13 14:23	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/06/13 14:23	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/06/13 14:23	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/06/13 14:23	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59255.19
Sample Tag: TW-10-08-6(8-10) MS
Collected Date/Time: 12/04/2013 09:15
Matrix: Soil
COC Reference: 75614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/06/13 10:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	60	ug/kg	330	SW8082A	12/06/13 14:38	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/06/13 14:38	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/06/13 14:38	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/06/13 14:38	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/06/13 14:38	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/06/13 14:38	JAN	5.706	
PCB-1260	50	ug/kg	330	SW8082A	12/06/13 14:38	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59255.20
Sample Tag: TW-10-08-6(8-10) MSD
Collected Date/Time: 12/04/2013 09:15
Matrix: Soil
COC Reference: 75614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/06/13 10:00	RGS		
Inorganics								
Total Solids	80	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	60	ug/kg	330	SW8082A	12/06/13 14:50	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/06/13 14:50	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/06/13 14:50	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/06/13 14:50	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/06/13 14:50	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/06/13 14:50	JAN	5.706	
PCB-1260	50	ug/kg	330	SW8082A	12/06/13 14:50	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59255.21
Sample Tag: TW-10-08-6(10-12)
Collected Date/Time: 12/04/2013 09:20
Matrix: Soil
COC Reference: 75614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/13 08:00	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/13 12:33	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/13 12:33	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/13 12:33	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/13 12:33	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/13 12:33	JAN	4.518	
PCB-1254	300	ug/kg	330	SW8082A	12/11/13 12:33	JAN	5.706	b
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/13 12:33	JAN	2.183	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S59255.22
Sample Tag: DUP-01
Collected Date/Time: 12/04/2013 00:01
Matrix: Soil
COC Reference: 75614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/13 08:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/13 12:20	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/13 12:20	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/13 12:20	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/13 12:20	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/13 12:20	JAN	4.518	
PCB-1254	400	ug/kg	330	SW8082A	12/11/13 12:20	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/13 12:20	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59255.23
Sample Tag: TW-10-08-7(4-6)
Collected Date/Time: 12/04/2013 11:00
Matrix: Soil
COC Reference: 75614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/13 08:00	RGS		
Inorganics								
Total Solids	78	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	12/10/13 16:31	JAN	2.943	Y
PCB-1242	Not detected	ug/kg	1,000	SW8082A	12/10/13 16:31	JAN	4.625	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	12/10/13 16:31	JAN	3.142	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	12/10/13 16:31	JAN	3.664	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	12/10/13 16:31	JAN	4.518	Y
PCB-1254	9,000	ug/kg	1,000	SW8082A	12/10/13 16:31	JAN	5.706	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	12/10/13 16:31	JAN	2.183	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59255.24
Sample Tag: TW-10-08-7(8-10)
Collected Date/Time: 12/04/2013 11:05
Matrix: Soil
COC Reference: 75614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/13 08:00	RGS		
Inorganics								
Total Solids	74	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/10/13 19:18	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/10/13 19:18	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/10/13 19:18	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/10/13 19:18	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/10/13 19:18	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/10/13 19:18	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/10/13 19:18	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59255.25
Sample Tag: TW-10-08-7(10-12)
Collected Date/Time: 12/04/2013 11:10
Matrix: Soil
COC Reference: 75614

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/13 08:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	12/05/13 18:05	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/10/13 18:15	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/10/13 18:15	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/10/13 18:15	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/10/13 18:15	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/10/13 18:15	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/10/13 18:15	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/10/13 18:15	JAN	2.183	

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C.O.C. PAGE # 1 OF 2

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CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Amee Freeman, Drew Shaw
COMPANY: ARCADIS
ADDRESS: 28550 Cabot Drive Suite 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241 | P.O. NO.: WA039
E-MAIL ADDRESS: MickiMaki, Amee Freeman, Drew Shaw | QUOTE NO.:

INVOICE TO

CONTACT NAME: Christi Kiker [X] SAME
COMPANY:
ADDRESS:
CITY | STATE | ZIP CODE:
PHONE NO. | E-MAIL ADDRESS:

PROJECT NO./NAME: B00644410.2013.00206, WA039
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Drew Shaw

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS [X] STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD [X] LEVEL II ☐ LEVEL III ☐ LEVEL IV [X] EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
59255.01	12/2/13	1250	TW-10-05-1(4-6)	S	1	X							X
.02	12/2/13	1255	TW-10-05-1(6-8)	S	1	X							X
.03	12/2/13	1300	TW-10-05-1(8-10)	S	1	X							X
.04	12/2/13	1305	TW-10-05-1(10-12)	S	1	X							X
.05	12/3/13	1010	TW-10-05-2(4-6)	S	1	X							X
.06	12/3/13	1015	TW-10-05-2(8-10)	S	1	X							X
.07	12/3/13	1020	TW-10-05-2(10-12)	S	1	X							X
.08	12/3/13	1150	TW-10-05-3(4-6)	S	1	X							X
.09	12/3/13	1155	TW-10-05-3(8-10)	S	1	X							X
.10	12/3/13	1200	TW-10-05-3(10-12)	S	1	X							X
.11	12/3/13	1420	TW-10-05-4(4-6)	S	1	X							X
.12	12/3/13	1425	TW-10-05-4(8-10)	S	1	X							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION [Sampler] DATE 12/4/13 TIME 1115
RECEIVED BY: SIGNATURE/ORGANIZATION DATE 12-4-13 TIME 1115

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE 12-4-13 TIME 1418
RECEIVED BY: SIGNATURE/ORGANIZATION Kevin George DATE 12/4/13 TIME 1445

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4°

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

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C.O.C. PAGE # 2 OF 2

75614

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Amee Freeman, Drew Shaw
COMPANY: ARCADIS
ADDRESS: 25550 Cabot Dr. Ste. 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248-994-2240 | FAX NO.: 248-994-2241 | P.O. NO.: WA039
E-MAIL ADDRESS: Micki Maki, Ameefreeman, Drew Shaw | QUOTE NO.: WA039

INVOICE TO

CONTACT NAME | ☐ SAME
COMPANY
ADDRESS
CITY | STATE | ZIP CODE
PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME: B0064410.2013.00206
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Drew Shaw

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☒ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB	Special Instructions
59255.13	12/3/13	1430	TW-10-8-4(10-12)	S	1	X							X	
.14	12/3/13	1610	TW-10-8-5(4-6)	S	1	X							X	
.15	12/3/13	1615	TW-10-5-5(8-10)	S	1	X							X	
.16	12/3/13	1620	TW-10-8-5(10-12)	S	1	X							X	
.17	12/4/13	0910	TW-10-08-6(4-6)'	S	1	X							X	
.18,.19,.20	12/4/13	0915	TW-10-08-6(8-10)	S	3	X							X	MS/MSD
.21	12/4/13	0920	TW-10-08-6(10-12)	S	1	X							X	
.22	12/4/13	—	DUP-01	S	1	X							X	
.23	12/4/13	1100	TW-10-08-7(4-6)	S	1	X							X	
.24	12/4/13	1105	TW-10-08-7(8-10)	S	1	X							X	
.25	12/4/13	1110	TW-10-08-7(10-12)	S	1	X							X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE 12/4/13	TIME 1115	RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 12-4-13	TIME 1445
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12-4-13	TIME 1150	RECEIVED BY: SIGNATURE/ORGANIZATION Kevin George	DATE 12/4/13	TIME 1445
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME	SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME	SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 4.8

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S59296.01(01)
Generated on 12/13/2013

Report to

Attention: Micki Maki
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1909 FAX: 248-994-2241
Email: micki.maki@ARCADIS-US.com

Addtional Contacts: Amee Freeman, Drew Shaw

Report produced by

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East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S59296.01-S59296.27
Project: B0064410.2013.00206
Collected Date: 12/04/2013 - 12/05/2013
Submitted Date/Time: 12/06/2013 14:30
Sampled by: Drew Shaw
P.O. #: B0064410.2013.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified.Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (27 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S59296.01	TW-10-4-1(8-10)	Soil	12/04/2013 12:15
S59296.02	TW-10-4-1(10-12)	Soil	12/04/2013 12:20
S59296.03	TW-10-4-1(12-14)	Soil	12/04/2013 12:25
S59296.04	TW-70-101-1(0-2)	Soil	12/04/2013 15:05
S59296.05	TW-70-101-1(3-5)	Soil	12/04/2013 15:10
S59296.06	TW-70-101-1(7-9)	Soil	12/04/2013 15:20
S59296.07	TW-70-101-2(0-2)	Soil	12/04/2013 16:30
S59296.08	TW-70-101-2(3-5)	Soil	12/04/2013 16:45
S59296.09	TW-70-101-2(7-9)	Soil	12/04/2013 16:50
S59296.10	TW-70-101-3(0-2)	Soil	12/05/2013 10:05
S59296.11	TW-70-101-3(3-5)	Soil	12/05/2013 10:10
S59296.12	TW-70-101-3(7-9)	Soil	12/05/2013 10:50
S59296.13	TW-70-101-4(0-2)	Soil	12/05/2013 11:15
S59296.14	TW-70-101-4(3-5)	Soil	12/05/2013 11:20
S59296.15	TW-70-101-4(7-9)	Soil	12/05/2013 11:25
S59296.16	TW-70-101-5(0-2)	Soil	12/05/2013 13:10
S59296.17	TW-70-101-5(3-5)	Soil	12/05/2013 13:15
S59296.18	TW-70-101-5(7-9)	Soil	12/05/2013 13:30
S59296.19	TW-70-101-6(0-2)	Soil	12/05/2013 13:50
S59296.20	TW-70-101-6(3-5)	Soil	12/05/2013 13:55
S59296.21	TW-70-101-6(7-9)	Soil	12/05/2013 14:00
S59296.22	TW-70-101-7(0-2)	Soil	12/05/2013 14:25
S59296.23	TW-70-101-7(0-2) MS	Soil	12/05/2013 14:25
S59296.24	TW-70-101-7(0-2) MSD	Soil	12/05/2013 14:25
S59296.25	TW-70-101-7(3-5)	Soil	12/05/2013 14:30
S59296.26	TW-70-101-7(7-9)	Soil	12/05/2013 14:35
S59296.27	DUP-02	Soil	12/05/2013 00:01

Analytical Laboratory Report

Lab Sample ID: S59296.01
Sample Tag: TW-10-4-1(8-10)
Collected Date/Time: 12/04/2013 12:15
Matrix: Soil
COC Reference: 75617

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/13 08:00	RGS		
Inorganics								
Total Solids	94	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/10/13 13:07	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/10/13 13:07	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/10/13 13:07	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/10/13 13:07	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/10/13 13:07	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/10/13 13:07	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/10/13 13:07	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.02
Sample Tag: TW-10-4-1(10-12)
Collected Date/Time: 12/04/2013 12:20
Matrix: Soil
COC Reference: 75617

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/13 08:00	RGS		
Inorganics								
Total Solids	89	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/10/13 13:18	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/10/13 13:18	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/10/13 13:18	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/10/13 13:18	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/10/13 13:18	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/10/13 13:18	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/10/13 13:18	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.03
Sample Tag: TW-10-4-1(12-14)
Collected Date/Time: 12/04/2013 12:25
Matrix: Soil
COC Reference: 75617

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/13 08:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	12/10/13 14:13	JAN	12674-11-2	Y
PCB-1242	11,000	ug/kg	1,000	SW8082A	12/10/13 14:13	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	12/10/13 14:13	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	12/10/13 14:13	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	12/10/13 14:13	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	1,000	SW8082A	12/10/13 14:13	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	12/10/13 14:13	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59296.04
Sample Tag: TW-70-101-1(0-2)
Collected Date/Time: 12/04/2013 15:05
Matrix: Soil
COC Reference: 75617

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/13 08:00	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/10/13 16:44	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/10/13 16:44	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/10/13 16:44	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/10/13 16:44	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/10/13 16:44	JAN	12672-29-6	
PCB-1254	2,500	ug/kg	330	SW8082A	12/10/13 16:44	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/10/13 16:44	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.05
Sample Tag: TW-70-101-1(3-5)
Collected Date/Time: 12/04/2013 15:10
Matrix: Soil
COC Reference: 75617

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/13 08:00	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	12/10/13 14:34	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	1,000	SW8082A	12/10/13 14:34	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	12/10/13 14:34	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	12/10/13 14:34	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	12/10/13 14:34	JAN	12672-29-6	Y
PCB-1254	4,000	ug/kg	1,000	SW8082A	12/10/13 14:34	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	12/10/13 14:34	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59296.06
Sample Tag: TW-70-101-1(7-9)
Collected Date/Time: 12/04/2013 15:20
Matrix: Soil
COC Reference: 75617

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/13 08:00	RGS		
Inorganics								
Total Solids	78	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/10/13 16:56	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/10/13 16:56	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/10/13 16:56	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/10/13 16:56	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/10/13 16:56	JAN	12672-29-6	
PCB-1254	800	ug/kg	330	SW8082A	12/10/13 16:56	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/10/13 16:56	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.07
Sample Tag: TW-70-101-2(0-2)
Collected Date/Time: 12/04/2013 16:30
Matrix: Soil
COC Reference: 75617

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/12/13 12:45	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/12/13 12:45	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/12/13 12:45	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/12/13 12:45	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/12/13 12:45	JAN	12672-29-6	Y
PCB-1254	2,900	ug/kg	600	SW8082A	12/12/13 12:45	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/12/13 12:45	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59296.08
Sample Tag: TW-70-101-2(3-5)
Collected Date/Time: 12/04/2013 16:45
Matrix: Soil
COC Reference: 75617

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/13 13:14	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/13 13:14	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/13 13:14	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/13 13:14	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/13 13:14	JAN	12672-29-6	
PCB-1254	1,100	ug/kg	330	SW8082A	12/12/13 13:14	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/13 13:14	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.09
Sample Tag: TW-70-101-2(7-9)
Collected Date/Time: 12/04/2013 16:50
Matrix: Soil
COC Reference: 75617

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/13 15:19	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/13 15:19	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/13 15:19	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/13 15:19	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/13 15:19	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/13 15:19	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/13 15:19	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.10
Sample Tag: TW-70-101-3(0-2)
Collected Date/Time: 12/05/2013 10:05
Matrix: Soil
COC Reference: 75617

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/12/13 13:43	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/12/13 13:43	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/12/13 13:43	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/12/13 13:43	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/12/13 13:43	JAN	12672-29-6	Y
PCB-1254	2,400	ug/kg	600	SW8082A	12/12/13 13:43	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/12/13 13:43	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59296.11
Sample Tag: TW-70-101-3(3-5)
Collected Date/Time: 12/05/2013 10:10
Matrix: Soil
COC Reference: 75617

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/13 15:22	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/13 15:22	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/13 15:22	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/13 15:22	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/13 15:22	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/12/13 15:22	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/13 15:22	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.12
Sample Tag: TW-70-101-3(7-9)
Collected Date/Time: 12/05/2013 10:50
Matrix: Soil
COC Reference: 75617

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	80	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/13 16:07	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/13 16:07	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/13 16:07	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/13 16:07	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/13 16:07	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/13 16:07	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/13 16:07	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.13
Sample Tag: TW-70-101-4(0-2)
Collected Date/Time: 12/05/2013 11:15
Matrix: Soil
COC Reference: 75616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/12/13 14:13	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/12/13 14:13	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/12/13 14:13	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/12/13 14:13	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/12/13 14:13	JAN	12672-29-6	Y
PCB-1254	1,800	ug/kg	600	SW8082A	12/12/13 14:13	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/12/13 14:13	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59296.14
Sample Tag: TW-70-101-4(3-5)
Collected Date/Time: 12/05/2013 11:20
Matrix: Soil
COC Reference: 75616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	12/12/13 14:23	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	1,000	SW8082A	12/12/13 14:23	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	12/12/13 14:23	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	12/12/13 14:23	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	12/12/13 14:23	JAN	12672-29-6	Y
PCB-1254	6,000	ug/kg	1,000	SW8082A	12/12/13 14:23	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	12/12/13 14:23	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59296.15
Sample Tag: TW-70-101-4(7-9)
Collected Date/Time: 12/05/2013 11:25
Matrix: Soil
COC Reference: 75616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/13 14:55	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/13 14:55	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/13 14:55	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/13 14:55	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/13 14:55	JAN	12672-29-6	
PCB-1254	1,400	ug/kg	330	SW8082A	12/12/13 14:55	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/13 14:55	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.16
Sample Tag: TW-70-101-5(0-2)
Collected Date/Time: 12/05/2013 13:10
Matrix: Soil
COC Reference: 75616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	88	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/13 16:18	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/13 16:18	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/13 16:18	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/13 16:18	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/13 16:18	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/13 16:18	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/13 16:18	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.17
Sample Tag: TW-70-101-5(3-5)
Collected Date/Time: 12/05/2013 13:15
Matrix: Soil
COC Reference: 75616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	73	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/13 15:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/13 15:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/13 15:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/13 15:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/13 15:36	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/12/13 15:36	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/13 15:36	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.18
Sample Tag: TW-70-101-5(7-9)
Collected Date/Time: 12/05/2013 13:30
Matrix: Soil
COC Reference: 75616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	80	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/13 16:05	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/13 16:05	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/13 16:05	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/13 16:05	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/13 16:05	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/12/13 16:05	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/13 16:05	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.19
Sample Tag: TW-70-101-6(0-2)
Collected Date/Time: 12/05/2013 13:50
Matrix: Soil
COC Reference: 75616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	79	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/13 16:28	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/13 16:28	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/13 16:28	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/13 16:28	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/13 16:28	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/13 16:28	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/13 16:28	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.20
Sample Tag: TW-70-101-6(3-5)
Collected Date/Time: 12/05/2013 13:55
Matrix: Soil
COC Reference: 75616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/13 16:26	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/13 16:26	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/13 16:26	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/13 16:26	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/13 16:26	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/12/13 16:26	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/13 16:26	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.21
Sample Tag: TW-70-101-6(7-9)
Collected Date/Time: 12/05/2013 14:00
Matrix: Soil
COC Reference: 75616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/13 15:56	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/13 15:56	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/13 15:56	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/13 15:56	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/13 15:56	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/13 15:56	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/13 15:56	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.22
Sample Tag: TW-70-101-7(0-2)
Collected Date/Time: 12/05/2013 14:25
Matrix: Soil
COC Reference: 75616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	88	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/13 14:28	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/13 14:28	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/13 14:28	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/13 14:28	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/13 14:28	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/13 14:28	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/13 14:28	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.23
Sample Tag: TW-70-101-7(0-2) MS
Collected Date/Time: 12/05/2013 14:25
Matrix: Soil
COC Reference: 75616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	88	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/13 14:39	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/13 14:39	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/13 14:39	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/13 14:39	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/13 14:39	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/13 14:39	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/13 14:39	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.24
Sample Tag: TW-70-101-7(0-2) MSD
Collected Date/Time: 12/05/2013 14:25
Matrix: Soil
COC Reference: 75616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	88	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/13 14:49	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/13 14:49	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/13 14:49	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/13 14:49	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/13 14:49	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/13 14:49	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/13 14:49	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.25
Sample Tag: TW-70-101-7(3-5)
Collected Date/Time: 12/05/2013 14:30
Matrix: Soil
COC Reference: 75616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/13 15:05	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/13 15:05	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/13 15:05	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/13 15:05	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/13 15:05	JAN	12672-29-6	
PCB-1254	2,100	ug/kg	330	SW8082A	12/12/13 15:05	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/13 15:05	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.26
Sample Tag: TW-70-101-7(7-9)
Collected Date/Time: 12/05/2013 14:35
Matrix: Soil
COC Reference: 75616

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/13 08:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/13 16:16	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/13 16:16	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/13 16:16	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/13 16:16	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/13 16:16	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/12/13 16:16	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/13 16:16	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59296.27
Sample Tag: DUP-02
Collected Date/Time: 12/05/2013 00:01
Matrix: Soil
COC Reference: 75615

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/13/13 09:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	12/09/13 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	12/13/13 12:12	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	1,000	SW8082A	12/13/13 12:12	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	12/13/13 12:12	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	12/13/13 12:12	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	12/13/13 12:12	JAN	12672-29-6	Y
PCB-1254	5,000	ug/kg	1,000	SW8082A	12/13/13 12:12	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	12/13/13 12:12	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

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C.O.C. PAGE # 1 OF 3

75617

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Amee Freeman, Drew Shaw
COMPANY: ARCADIS
ADDRESS: 28550 Cabot Drive Suite 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248-994-2240 | FAX NO.: 248-994-2241 | P.O. NO.: WA039
E-MAIL ADDRESS: Micki Maki, Amee.Freeman, Drew Shaw | QUOTE NO.: WA039

INVOICE TO

CONTACT NAME: Christi Kiker ☒ SAME
COMPANY:
ADDRESS:
CITY | STATE | ZIP CODE:
PHONE NO. | E-MAIL ADDRESS:

PROJECT NO./NAME: B006441O.2013.00206
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Drew Shaw

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☒ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
59296.01	12/4/13	1215	Tw-10-4-1(8-10)	S	1	X							X
.02	12/4/13	1220	Tw-10-4-1(10-12)	S	1	X							X
.03	12/4/13	1225	Tw-10-4-1(12-14)	S	1	X							X
.04	12/4/13	1505	Tw-70-101-1(0-2)	S	1	X							X
.05	12/4/13	1510	Tw-70-101-1(3-5)	S	1	X							X
.06	12/4/13	1520	Tw-70-101-1(7-9)	S	1	X							X
.07	12/4/13	1630	Tw-70-101-2(0-2)	S	1	X							X
.08	12/4/13	1645	Tw-70-101-2(3-5)	S	1	X							X
.09	12/4/13	1650	Tw-70-101-2(7-9)	S	1	X							X
.10	12/5/13	1005	Tw-70-101-3(0-2)	S	1	X							X
.11	12/5/13	1010	Tw-70-101-3(3-5)	S	1	X							X
.12	12/5/13	1050	Tw-70-101-3(7-9)	S	1	X							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION ☒ Sampler — DATE 12/6/13 TIME 1216
RECEIVED BY: SIGNATURE/ORGANIZATION — DATE 12-6-13 TIME 1230

RELINQUISHED BY: SIGNATURE/ORGANIZATION — DATE 12-6-13 TIME 1430
RECEIVED BY: SIGNATURE/ORGANIZATION — DATE TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION — DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION — DATE TIME

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

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C.O.C. PAGE # 2 OF 3

75616

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Amee Freeman, Drew Shaw
COMPANY: ARCADIS
ADDRESS: 28550 Cabot Drive Suite 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248-994-2240 | FAX NO.: 248-994-2241 | P.O. NO.: WA039
E-MAIL ADDRESS: Micki Maki, Amee Freeman, Drew Shaw | QUOTE NO.: WA039

INVOICE TO

CONTACT NAME: Christi Kiker | [X] SAME
COMPANY:
ADDRESS:
CITY | STATE | ZIP CODE:
PHONE NO. | E-MAIL ADDRESS:

PROJECT NO./NAME: 30060410.2013.00206
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Drew Shaw

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS [X] STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD [X] LEVEL II ☐ LEVEL III ☐ LEVEL IV [X] EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB									Special Instructions
59296.13	12/5/13	1115	Tw-70-101-4(0-2)	S	1	X							X									
.14	12/5/13	1120	Tw-70-101-4(3-5)	S	1	X							X									
.15	12/5/13	1125	Tw-70-101-4(7-9)	S	1	X							X									
.16	12/5/13	1310	Tw-70-101-5(0-2)	S	1	X							X									
.17	12/5/13	1315	Tw-70-101-5(3-5)	S	1	X							X									
.18	12/5/13	1330	Tw-70-101-5(7-9)	S	1	X							X									
.19	12/5/13	1350	Tw-70-101-6(0-2)	S	1	X							X									
.20	12/5/13	1355	Tw-70-101-6(3-5)	S	1	X							X									
.21	12/5/13	1400	Tw-70-101-6(7-9)	S	1	X							X									
.24,.23,.22	12/5/13	1425	Tw-70-101-7(0-2)	S	3	X							X									MS/MSD
.25	12/5/13	1430	Tw-70-101-7(3-5)	S	1	X							X									
.26 ~~.24~~	12/5/13	1435	Tw-70-101-7(7-9)	S	1	X							X									

RELINQUISHED BY: SIGNATURE/ORGANIZATION	[X] Sampler	DATE 12/6/13	TIME 1210
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12-6-13	TIME 1210
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 12/6/13	TIME 1430
RECEIVED BY: SIGNATURE/ORGANIZATION	Thurin George	DATE 12/6/13	TIME 1430
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

NOTES: TEMP. ON ARRIVAL 4/17

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 3 OF 3

75615

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Amee Freeman, Drew Shaw
COMPANY: ARCADIS
ADDRESS: 28550 Cabot Drive Suite 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248-994-2240 | FAX NO.: 248-994-2240 | P.O. NO.: WA039
E-MAIL ADDRESS: Micki Maki, Amee Freeman, Drew Shaw | QUOTE NO.: WA039

INVOICE TO

CONTACT NAME: Christi Kiker | X SAME
COMPANY:
ADDRESS:
CITY | STATE | ZIP CODE:
PHONE NO. | E-MAIL ADDRESS:

PROJECT NO./NAME: BUC064410.2013.00206
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Drew Shaw

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☒ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
59296.27	12/5/13	—	DUP-02	S	1	X							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION ☐ Sampler — DATE 12/6/13 — TIME 1210
RECEIVED BY: SIGNATURE/ORGANIZATION — DATE 12-6-13 — TIME 1210

RELINQUISHED BY: SIGNATURE/ORGANIZATION — DATE 12-6-13 — TIME 1430
RECEIVED BY: SIGNATURE/ORGANIZATION Kevin George — DATE 12/6/13 — TIME 1430

RELINQUISHED BY: SIGNATURE/ORGANIZATION — DATE — TIME
RECEIVED BY: SIGNATURE/ORGANIZATION — DATE — TIME

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS
SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S59356.01(01)
Generated on 12/20/2013

Report to

Attention: Micki Maki
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1909 FAX: 248-994-2241
Email: micki.maki@ARCADIS-US.com

Addtional Contacts: Amee Freeman, Drew Shaw, Erin Kozak

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S59356.01-S59356.48
Project: B0064410.2013.00206 / Buick City RACER Flint, MI
Collected Date: 12/09/2013 - 12/11/2013
Submitted Date/Time: 12/11/2013 15:30
Sampled by: A. Richmond
P.O. #: B0064410.2013.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (48 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S59356.01	TW-70-107R-1(0-2)	Soil	12/09/2013 11:20
S59356.02	TW-70-107R-1(3-5)	Soil	12/09/2013 11:25
S59356.03	TW-70-107R-1(7-9)	Soil	12/09/2013 11:30
S59356.04	TW-70-107R-2(0-2)	Soil	12/09/2013 13:20
S59356.05	TW-70-107R-2(3-5)	Soil	12/09/2013 13:25
S59356.06	TW-70-107R-2(7-9)	Soil	12/09/2013 13:30
S59356.07	TW-70-107R-3(0-2)	Soil	12/09/2013 14:30
S59356.08	TW-70-107R-3(3-5)	Soil	12/09/2013 14:35
S59356.09	TW-70-107R-3(7-9)	Soil	12/09/2013 14:40
S59356.10	TW-70-107R-4(0-2)	Soil	12/09/2013 15:10
S59356.11	TW-70-107R-4(3-5)	Soil	12/09/2013 15:15
S59356.12	TW-70-107R-4(7-9)	Soil	12/09/2013 15:20
S59356.13	TW-70-107R-5(7-9)	Soil	12/09/2013 16:10
S59356.14	TW-70-107R-5(0-2)	Soil	12/09/2013 16:15
S59356.15	TW-70-107R-5(3-5)	Soil	12/09/2013 16:20
S59356.16	DUP-1	Soil	12/09/2013 00:01
S59356.17	TW-70-107R-6(0-2)	Soil	12/10/2013 13:05
S59356.18	TW-70-107R-6(3-5)	Soil	12/10/2013 13:10
S59356.19	TW-70-107R-6(3-5) MS	Soil	12/10/2013 13:10
S59356.20	TW-70-107R-6(3-5) MSD	Soil	12/10/2013 13:10
S59356.21	TW-70-107R-6(7-9)	Soil	12/10/2013 13:15
S59356.22	TW-70-107R-7(0-2)	Soil	12/10/2013 13:35
S59356.23	TW-70-107R-7(7-9)	Soil	12/10/2013 13:45
S59356.24	TW-70-107R-7(3-5)	Soil	12/10/2013 13:40
S59356.25	TW-70-103-1(0-2)	Soil	12/10/2013 15:15
S59356.26	TW-70-103-1(3-5)	Soil	12/10/2013 15:20
S59356.27	TW-70-103-1(7-9)	Soil	12/10/2013 15:25
S59356.28	TW-70-103-2(0-2)	Soil	12/10/2013 16:10
S59356.29	TW-70-103-2(3-5)	Soil	12/10/2013 16:15
S59356.30	TW-70-103-2(7-9)	Soil	12/10/2013 16:40
S59356.31	TW-70-103-3(0-2)	Soil	12/11/2013 09:05
S59356.32	TW-70-103-3(3-5)	Soil	12/11/2013 09:10
S59356.33	TW-70-103-3(7-9)	Soil	12/11/2013 09:15
S59356.34	TW-70-103-4(0-2)	Soil	12/11/2013 09:45
S59356.35	TW-70-103-4(3-5)	Soil	12/11/2013 09:50
S59356.36	TW-70-103-4(7-9)	Soil	12/11/2013 09:55
S59356.37	TW-70-103-5(0-2)	Soil	12/11/2013 10:45
S59356.38	TW-70-103-5(3-5)	Soil	12/11/2013 10:50
S59356.39	TW-70-103-5(7-9)	Soil	12/11/2013 10:55
S59356.40	TW-70-103-6(0-2)	Soil	12/11/2013 11:20
S59356.41	TW-70-103-6(3-5)	Soil	12/11/2013 11:25
S59356.42	TW-70-103-6(7-9)	Soil	12/11/2013 11:30
S59356.43	TW-70-103-7(0-2)	Soil	12/11/2013 13:45
S59356.44	TW-70-103-7(0-2) MS	Soil	12/11/2013 13:45
S59356.45	TW-70-103-7(0-2) MSD	Soil	12/11/2013 13:45
S59356.46	TW-70-103-7(3-5)	Soil	12/11/2013 13:50
S59356.47	TW-70-103-7(7-9)	Soil	12/11/2013 13:55
S59356.48	DUP-1	Soil	12/11/2013 00:01

Analytical Laboratory Report

Lab Sample ID: S59356.01
Sample Tag: TW-70-107R-1(0-2)
Collected Date/Time: 12/09/2013 11:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/17/13 11:05	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/17/13 11:05	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/17/13 11:05	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/17/13 11:05	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/17/13 11:05	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/17/13 11:05	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/17/13 11:05	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.02
Sample Tag: TW-70-107R-1(3-5)
Collected Date/Time: 12/09/2013 11:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	88	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/16/13 19:02	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/16/13 19:02	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/16/13 19:02	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/16/13 19:02	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/16/13 19:02	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/16/13 19:02	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/16/13 19:02	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.03
Sample Tag: TW-70-107R-1(7-9)
Collected Date/Time: 12/09/2013 11:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/17/13 11:46	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/17/13 11:46	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/17/13 11:46	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/17/13 11:46	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/17/13 11:46	JAN	4.518	
PCB-1254	1,500	ug/kg	330	SW8082A	12/17/13 11:46	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/17/13 11:46	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.04
Sample Tag: TW-70-107R-2(0-2)
Collected Date/Time: 12/09/2013 13:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	89	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/17/13 14:49	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/17/13 14:49	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/17/13 14:49	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/17/13 14:49	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/17/13 14:49	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/17/13 14:49	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/17/13 14:49	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.05
Sample Tag: TW-70-107R-2(3-5)
Collected Date/Time: 12/09/2013 13:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/17/13 14:59	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/17/13 14:59	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/17/13 14:59	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/17/13 14:59	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/17/13 14:59	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/17/13 14:59	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/17/13 14:59	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.06
Sample Tag: TW-70-107R-2(7-9)
Collected Date/Time: 12/09/2013 13:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/17/13 13:54	JAN	2.943	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/17/13 13:54	JAN	4.625	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/17/13 13:54	JAN	3.142	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/17/13 13:54	JAN	3.664	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/17/13 13:54	JAN	4.518	Y
PCB-1254	4,100	ug/kg	600	SW8082A	12/17/13 13:54	JAN	5.706	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/17/13 13:54	JAN	2.183	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59356.07
Sample Tag: TW-70-107R-3(0-2)
Collected Date/Time: 12/09/2013 14:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/17/13 15:10	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/17/13 15:10	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/17/13 15:10	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/17/13 15:10	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/17/13 15:10	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/17/13 15:10	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/17/13 15:10	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.08
Sample Tag: TW-70-107R-3(3-5)
Collected Date/Time: 12/09/2013 14:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/17/13 15:20	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/17/13 15:20	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/17/13 15:20	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/17/13 15:20	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/17/13 15:20	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/17/13 15:20	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/17/13 15:20	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.09
Sample Tag: TW-70-107R-3(7-9)
Collected Date/Time: 12/09/2013 14:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	79	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/17/13 15:31	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/17/13 15:31	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/17/13 15:31	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/17/13 15:31	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/17/13 15:31	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/17/13 15:31	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/17/13 15:31	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.10
Sample Tag: TW-70-107R-4(0-2)
Collected Date/Time: 12/09/2013 15:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/17/13 15:41	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/17/13 15:41	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/17/13 15:41	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/17/13 15:41	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/17/13 15:41	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/17/13 15:41	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/17/13 15:41	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.11
Sample Tag: TW-70-107R-4(3-5)
Collected Date/Time: 12/09/2013 15:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/17/13 15:52	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/17/13 15:52	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/17/13 15:52	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/17/13 15:52	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/17/13 15:52	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/17/13 15:52	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/17/13 15:52	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.12
Sample Tag: TW-70-107R-4(7-9)
Collected Date/Time: 12/09/2013 15:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/17/13 13:42	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/17/13 13:42	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/17/13 13:42	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/17/13 13:42	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/17/13 13:42	JAN	4.518	
PCB-1254	1,500	ug/kg	330	SW8082A	12/17/13 13:42	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/17/13 13:42	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.13
Sample Tag: TW-70-107R-5(7-9)
Collected Date/Time: 12/09/2013 16:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/18/13 12:21	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/18/13 12:21	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/18/13 12:21	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/18/13 12:21	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/18/13 12:21	JAN	4.518	
PCB-1254	2,100	ug/kg	330	SW8082A	12/18/13 12:21	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/18/13 12:21	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.14
Sample Tag: TW-70-107R-5(0-2)
Collected Date/Time: 12/09/2013 16:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	92	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/18/13 12:48	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/18/13 12:48	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/18/13 12:48	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/18/13 12:48	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/18/13 12:48	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/18/13 12:48	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/18/13 12:48	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.15
Sample Tag: TW-70-107R-5(3-5)
Collected Date/Time: 12/09/2013 16:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/17/13 16:13	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/17/13 16:13	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/17/13 16:13	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/17/13 16:13	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/17/13 16:13	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/17/13 16:13	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/17/13 16:13	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.16
Sample Tag: DUP-1
Collected Date/Time: 12/09/2013 00:01
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	72	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/18/13 12:35	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/18/13 12:35	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/18/13 12:35	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/18/13 12:35	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/18/13 12:35	JAN	4.518	
PCB-1254	2,800	ug/kg	330	SW8082A	12/18/13 12:35	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/18/13 12:35	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.17
Sample Tag: TW-70-107R-6(0-2)
Collected Date/Time: 12/10/2013 13:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	88	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/17/13 16:23	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/17/13 16:23	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/17/13 16:23	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/17/13 16:23	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/17/13 16:23	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/17/13 16:23	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/17/13 16:23	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.18
Sample Tag: TW-70-107R-6(3-5)
Collected Date/Time: 12/10/2013 13:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/16/13 14:53	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/16/13 14:53	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/16/13 14:53	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/16/13 14:53	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/16/13 14:53	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/16/13 14:53	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/16/13 14:53	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.19
Sample Tag: TW-70-107R-6(3-5) MS
Collected Date/Time: 12/10/2013 13:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	20	ug/kg	330	SW8082A	12/16/13 15:03	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/16/13 15:03	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/16/13 15:03	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/16/13 15:03	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/16/13 15:03	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/16/13 15:03	JAN	5.706	
PCB-1260	20	ug/kg	330	SW8082A	12/16/13 15:03	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.20
Sample Tag: TW-70-107R-6(3-5) MSD
Collected Date/Time: 12/10/2013 13:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/13 10:00	RGS		
Inorganics								
Total Solids	89	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	20	ug/kg	330	SW8082A	12/16/13 15:41	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/16/13 15:41	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/16/13 15:41	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/16/13 15:41	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/16/13 15:41	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/16/13 15:41	JAN	5.706	
PCB-1260	20	ug/kg	330	SW8082A	12/16/13 15:41	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.21
Sample Tag: TW-70-107R-6(7-9)
Collected Date/Time: 12/10/2013 13:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/18/13 13:00	RGS		
Inorganics								
Total Solids	79	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/19/13 14:01	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/19/13 14:01	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/19/13 14:01	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/19/13 14:01	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/19/13 14:01	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/19/13 14:01	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/19/13 14:01	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.22
Sample Tag: TW-70-107R-7(0-2)
Collected Date/Time: 12/10/2013 13:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/18/13 13:00	RGS		
Inorganics								
Total Solids	93	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/19/13 16:13	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/19/13 16:13	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/19/13 16:13	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/19/13 16:13	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/19/13 16:13	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/19/13 16:13	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/19/13 16:13	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.23
Sample Tag: TW-70-107R-7(7-9)
Collected Date/Time: 12/10/2013 13:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/18/13 13:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/19/13 14:26	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/19/13 14:26	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/19/13 14:26	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/19/13 14:26	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/19/13 14:26	JAN	4.518	
PCB-1254	2,200	ug/kg	330	SW8082A	12/19/13 14:26	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/19/13 14:26	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.24
Sample Tag: TW-70-107R-7(3-5)
Collected Date/Time: 12/10/2013 13:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/18/13 13:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/19/13 16:24	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/19/13 16:24	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/19/13 16:24	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/19/13 16:24	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/19/13 16:24	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/19/13 16:24	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/19/13 16:24	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.25
Sample Tag: TW-70-103-1(0-2)
Collected Date/Time: 12/10/2013 15:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/18/13 13:00	RGS		
Inorganics								
Total Solids	89	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/19/13 14:56	JAN	2.943	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/19/13 14:56	JAN	4.625	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/19/13 14:56	JAN	3.142	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/19/13 14:56	JAN	3.664	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/19/13 14:56	JAN	4.518	Y
PCB-1254	3,900	ug/kg	600	SW8082A	12/19/13 14:56	JAN	5.706	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/19/13 14:56	JAN	2.183	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59356.26
Sample Tag: TW-70-103-1(3-5)
Collected Date/Time: 12/10/2013 15:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/18/13 13:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/19/13 15:28	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/19/13 15:28	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/19/13 15:28	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/19/13 15:28	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/19/13 15:28	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/19/13 15:28	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/19/13 15:28	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.27
Sample Tag: TW-70-103-1(7-9)
Collected Date/Time: 12/10/2013 15:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/18/13 13:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/19/13 16:35	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/19/13 16:35	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/19/13 16:35	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/19/13 16:35	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/19/13 16:35	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/19/13 16:35	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/19/13 16:35	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.28
Sample Tag: TW-70-103-2(0-2)
Collected Date/Time: 12/10/2013 16:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/18/13 13:00	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/19/13 15:48	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/19/13 15:48	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/19/13 15:48	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/19/13 15:48	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/19/13 15:48	JAN	4.518	
PCB-1254	1,400	ug/kg	330	SW8082A	12/19/13 15:48	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/19/13 15:48	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.29
Sample Tag: TW-70-103-2(3-5)
Collected Date/Time: 12/10/2013 16:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/18/13 13:00	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/19/13 16:03	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/19/13 16:03	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/19/13 16:03	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/19/13 16:03	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/19/13 16:03	JAN	4.518	
PCB-1254	1,000	ug/kg	330	SW8082A	12/19/13 16:03	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/19/13 16:03	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.30
Sample Tag: TW-70-103-2(7-9)
Collected Date/Time: 12/10/2013 16:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/18/13 13:00	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/18/13 18:11	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/18/13 18:11	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/18/13 18:11	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/18/13 18:11	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/18/13 18:11	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/18/13 18:11	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/18/13 18:11	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.31
Sample Tag: TW-70-103-3(0-2)
Collected Date/Time: 12/11/2013 09:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/18/13 13:00	RGS		
Inorganics								
Total Solids	94	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/19/13 14:12	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/19/13 14:12	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/19/13 14:12	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/19/13 14:12	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/19/13 14:12	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/19/13 14:12	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/19/13 14:12	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.32
Sample Tag: TW-70-103-3(3-5)
Collected Date/Time: 12/11/2013 09:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/18/13 13:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/18/13 18:21	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/18/13 18:21	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/18/13 18:21	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/18/13 18:21	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/18/13 18:21	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/18/13 18:21	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/18/13 18:21	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.33
Sample Tag: TW-70-103-3(7-9)
Collected Date/Time: 12/11/2013 09:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/18/13 13:00	RGS		
Inorganics								
Total Solids	78	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/18/13 18:32	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/18/13 18:32	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/18/13 18:32	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/18/13 18:32	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/18/13 18:32	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/18/13 18:32	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/18/13 18:32	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.34
Sample Tag: TW-70-103-4(0-2)
Collected Date/Time: 12/11/2013 09:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	88	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/20/13 11:40	JAN	2.943	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/20/13 11:40	JAN	4.625	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/20/13 11:40	JAN	3.142	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/20/13 11:40	JAN	3.664	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/20/13 11:40	JAN	4.518	Y
PCB-1254	4,500	ug/kg	600	SW8082A	12/20/13 11:40	JAN	5.706	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/20/13 11:40	JAN	2.183	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59356.35
Sample Tag: TW-70-103-4(3-5)
Collected Date/Time: 12/11/2013 09:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/20/13 12:26	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/20/13 12:26	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/20/13 12:26	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/20/13 12:26	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/20/13 12:26	JAN	4.518	
PCB-1254	1,300	ug/kg	330	SW8082A	12/20/13 12:26	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/20/13 12:26	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.36
Sample Tag: TW-70-103-4(7-9)
Collected Date/Time: 12/11/2013 09:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/20/13 12:36	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/20/13 12:36	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/20/13 12:36	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/20/13 12:36	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/20/13 12:36	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/20/13 12:36	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/20/13 12:36	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.37
Sample Tag: TW-70-103-5(0-2)
Collected Date/Time: 12/11/2013 10:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/20/13 12:47	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/20/13 12:47	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/20/13 12:47	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/20/13 12:47	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/20/13 12:47	JAN	4.518	
PCB-1254	300	ug/kg	330	SW8082A	12/20/13 12:47	JAN	5.706	b
PCB-1260	Not detected	ug/kg	330	SW8082A	12/20/13 12:47	JAN	2.183	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S59356.38
Sample Tag: TW-70-103-5(3-5)
Collected Date/Time: 12/11/2013 10:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/20/13 14:04	JAN	2.943	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/20/13 14:04	JAN	4.625	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/20/13 14:04	JAN	3.142	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/20/13 14:04	JAN	3.664	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/20/13 14:04	JAN	4.518	Y
PCB-1254	4,600	ug/kg	600	SW8082A	12/20/13 14:04	JAN	5.706	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/20/13 14:04	JAN	2.183	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59356.39
Sample Tag: TW-70-103-5(7-9)
Collected Date/Time: 12/11/2013 10:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/20/13 13:08	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/20/13 13:08	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/20/13 13:08	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/20/13 13:08	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/20/13 13:08	JAN	4.518	
PCB-1254	2,400	ug/kg	330	SW8082A	12/20/13 13:08	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/20/13 13:08	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.40
Sample Tag: TW-70-103-6(0-2)
Collected Date/Time: 12/11/2013 11:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	88	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/20/13 13:18	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/20/13 13:18	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/20/13 13:18	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/20/13 13:18	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/20/13 13:18	JAN	4.518	
PCB-1254	2,500	ug/kg	330	SW8082A	12/20/13 13:18	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/20/13 13:18	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.41
Sample Tag: TW-70-103-6(3-5)
Collected Date/Time: 12/11/2013 11:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	2,000	SW8082A	12/20/13 11:14	JAN	2.943	Y
PCB-1242	Not detected	ug/kg	2,000	SW8082A	12/20/13 11:14	JAN	4.625	Y
PCB-1221	Not detected	ug/kg	2,000	SW8082A	12/20/13 11:14	JAN	3.142	Y
PCB-1232	Not detected	ug/kg	2,000	SW8082A	12/20/13 11:14	JAN	3.664	Y
PCB-1248	Not detected	ug/kg	2,000	SW8082A	12/20/13 11:14	JAN	4.518	Y
PCB-1254	11,000	ug/kg	2,000	SW8082A	12/20/13 11:14	JAN	5.706	Y
PCB-1260	Not detected	ug/kg	2,000	SW8082A	12/20/13 11:14	JAN	2.183	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59356.42
Sample Tag: TW-70-103-6(7-9)
Collected Date/Time: 12/11/2013 11:30
Matrix: Soil
COC Reference: 76940

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/20/13 13:43	JAN	2.943	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/20/13 13:43	JAN	4.625	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/20/13 13:43	JAN	3.142	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/20/13 13:43	JAN	3.664	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/20/13 13:43	JAN	4.518	Y
PCB-1254	5,300	ug/kg	600	SW8082A	12/20/13 13:43	JAN	5.706	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/20/13 13:43	JAN	2.183	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59356.43
Sample Tag: TW-70-103-7(0-2)
Collected Date/Time: 12/11/2013 13:45
Matrix: Soil
COC Reference: 76940

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/18/13 13:00	RGS		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/19/13 13:01	JAN	2.943	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/19/13 13:01	JAN	4.625	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/19/13 13:01	JAN	3.142	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/19/13 13:01	JAN	3.664	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/19/13 13:01	JAN	4.518	Y
PCB-1254	4,700	ug/kg	600	SW8082A	12/19/13 13:01	JAN	5.706	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/19/13 13:01	JAN	2.183	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59356.44
Sample Tag: TW-70-103-7(0-2) MS
Collected Date/Time: 12/11/2013 13:45
Matrix: Soil
COC Reference: 76940

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/18/13 13:00	RGS		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/19/13 13:16	JAN	2.943	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/19/13 13:16	JAN	4.625	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/19/13 13:16	JAN	3.142	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/19/13 13:16	JAN	3.664	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/19/13 13:16	JAN	4.518	Y
PCB-1254	4,100	ug/kg	600	SW8082A	12/19/13 13:16	JAN	5.706	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/19/13 13:16	JAN	2.183	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59356.45
Sample Tag: TW-70-103-7(0-2) MSD
Collected Date/Time: 12/11/2013 13:45
Matrix: Soil
COC Reference: 76940

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/18/13 13:00	RGS		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/19/13 13:31	JAN	2.943	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/19/13 13:31	JAN	4.625	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/19/13 13:31	JAN	3.142	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/19/13 13:31	JAN	3.664	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/19/13 13:31	JAN	4.518	Y
PCB-1254	5,500	ug/kg	600	SW8082A	12/19/13 13:31	JAN	5.706	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/19/13 13:31	JAN	2.183	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59356.46
Sample Tag: TW-70-103-7(3-5)
Collected Date/Time: 12/11/2013 13:50
Matrix: Soil
COC Reference: 76940

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/20/13 13:54	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/20/13 13:54	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/20/13 13:54	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/20/13 13:54	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/20/13 13:54	JAN	4.518	
PCB-1254	2,300	ug/kg	330	SW8082A	12/20/13 13:54	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/20/13 13:54	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.47
Sample Tag: TW-70-103-7(7-9)
Collected Date/Time: 12/11/2013 13:55
Matrix: Soil
COC Reference: 76940

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	78	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/20/13 17:16	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/20/13 17:16	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/20/13 17:16	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/20/13 17:16	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/20/13 17:16	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/20/13 17:16	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/20/13 17:16	JAN	2.183	

Analytical Laboratory Report

Lab Sample ID: S59356.48
Sample Tag: DUP-1
Collected Date/Time: 12/11/2013 00:01
Matrix: Soil
COC Reference: 76940

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	77	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/20/13 17:27	JAN	2.943	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/20/13 17:27	JAN	4.625	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/20/13 17:27	JAN	3.142	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/20/13 17:27	JAN	3.664	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/20/13 17:27	JAN	4.518	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/20/13 17:27	JAN	5.706	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/20/13 17:27	JAN	2.183	

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C.O.C. Page # 1 of 4 C.O.C I.D.#

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Amee Freeman, Erin Kozak, Drew Shaw
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
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P.O. NO.: ARCADIS WA039
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QUOTE NO.: ARCADIS WA039

INVOICE TO

CONTACT NAME: Christi Kiker
☑ SAME
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B0064410.2013.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: A. Richmond
TURNAROUND TIME REQUIRED: ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Code: GW=Groundwater WW=Waste Water S=Soil L=Liquid SD=Solid SL=Sludge DW=Drinking Water O=Oil A=Air W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ RUSTIES
Project Locations: ☐ Detroit ☐ New York ☑ Other
Special Instructions:

MERIT LAB NO FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB
593560.01	12/9/13	1120	TW-70-107R-1 (0-2)	S	1	1							✓
.02	12/9/13	1125	TW-70-107R-1 (3-5)	S	1	1							✓
.03	12/9/13	1130	TW-70-107R-1 (7-9)	S	1	1							✓
.04	12/9/13	1320	TW-70-107R-2 (0-2)	S	1	1							✓
.05	12/9/13	1325	TW-70-107R-2 (3-5)	S	1	1							✓
.06	12/9/13	1330	TW-70-107R-2 (7-9)	S	1	1							✓
.07	12/9/13	1430	TW-70-107R-3 (0-2)	S	1	1							✓
.08	12/9/13	1435	TW-70-107R-3 (3-5)	S	1	1							✓
.09	12/9/13	1440	TW-70-107R-3 (7-9)	S	1	1							✓
.10	12/9/13	1510	TW-70-107R-4 (0-2)	S	1	1							✓
.11	12/9/13	1515	TW-70-107R-4 (3-5)	S	1	1							✓
.12	12/9/13	1520	TW-70-107R-4 (7-9)	S	1	1							✓
.13	12/9/13	1610	TW-70-107R-5 ~~(0-2)~~ (7-9) AR 12/9/13	S	1	1							✓

Relinquished By: Signature/Organization	☑ Sampler	12/10/13	1430	Due: 12-11-13	1530
Received By: Signature/Organization		12-11-13	1530		
Relinquished By: Signature/Organization					
Received By: Signature/Organization					

Relinquished By: Kevin George — Received By: Kevin George — Date: 12/11/13 — Time: 1530

Seal No. | Seal Intact ☐ Yes ☐ No | Initials
Seal No. | Seal Intact ☐ Yes ☐ No | Initials

Notes: Temp. on arrival 4.2

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C.O.C. Page # 2 of 4 C.O.C I.D.#

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Amee Freeman, Erin Kozak, Drew Shaw
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241
P.O. NO.: ARCADIS WA039
EMAIL ADDRES: micki.maki@arcadis-us.com; erin.kozak@arcadis-us.com; drew.shaw@arcadis-us.com; amee.freeman@arcadis-us.com
QUOTE NO.: ARCADIS WA039

INVOICE TO

☑ SAME

CONTACT NAME: Christi Kiker
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B0064410.2013.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: A. Richmond

TURNAROUND TIME REQUIRED: ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Codes: GW=Groundwater, WW=Waste Water, S=Soil, L=Liquid, SD=Solid, SL=Sludge, DW=Drinking Water, O=Oil, A=Air, W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB	Special Instructions
59356.14	12/9/13	1615	TW-70-107R-5(0-2)	S	1	1							✓	
.15	12/9/13	1620	TW-70-107R-5(3-5)	S	1	1							✓	
.16	12/9/13		DUP-1	S	1	1							✓	
.17	12/~~9~~13	1305	TW-70-107R-6(0-2)	S	1	1							✓	
.18,.19,.20	12/10/13	1310	TW-70-107R-6(3-5)	S	3	+3							✓	MS/MSD
.21	12/10/13	1315	TW-70-107R-6(7-9)	S	1	1							✓	
.22	12/10/13	1335	TW-70-107R-7(0-2)	S	1	1							✓	
.23	12/10/13	1345	TW-70-107R-~~7(3-5)~~(7-9)	S	1	1							✓	
.24	12/10/13	1340	TW-70-107R-7(3-5)	S	1	1							✓	
.25	12/10/13	1515	TW-70-103-1(0-2)	S	1	1							✓	
.26	12/10/13	1520	TW-70-103-1(3-5)	S	1	1							✓	
.27	12/10/13	1525	TW-70-103-1(7-9)	S	1	1							✓	
.28	12/10/13	1610	TW-70-103-2(0-2)	S	1	1							✓	

Relinquished By: / Signature/Organization	☑ Sampler	Date 12/11/13	Time 1430	Relinquished By: / Signature/Organization	Date 12-11-13	Time 1530
Received By: / Signature/Organization		Date 12-11-13	Time 1430	Received By: / Signature/Organization	Date 12/11/13	Time 1530
Relinquished By: / Signature/Organization		Date	Time	Seal No.	Seal Intact ☐ Yes ☐ No	Initials	Notes: Temp on arrival 4.2
Received By: / Signature/Organization		Date	Time	Seal No.	Seal Intact ☐ Yes ☐ No	Initials	

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C.O.C. Page # 3 of 4 C.O.C I.D.#

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Amee Freeman, Tony Maffeo, Drew Shaw, Erin Kozak
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241
P.O. NO.: ARCADIS ~~WA038~~ WA039 #12013
E-MAIL ADDRESS: drew.shaw@arcadis-us.com; erin.kozak@arcadis-us.com; amee.freeman@arcadis-us.com; tony.maffeo@arcadis-us.com
QUOTE NO.: ARCADIS ~~WA038~~ WA039 #12013

INVOICE TO

☑ SAME

CONTACT NAME: Christi Kiker
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME: B0064410.2013.~~01101~~ 00206 #12013 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: A. Richmond

TURNAROUND TIME REQUIRED: ~~☑ 1 DAY~~ ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER
at #12013

Matrix Codes: GW=Groundwater, WW=Waste Water, S=Soil, L=Liquid, SD=Solid, SL=Sludge, DW=Drinking Water, O=Oil, A=Air, W=Waste

MERRILL LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NACH	MECH	OTHER	~~Manganese~~ PCB
593562.29	12/10/13	1615	TW-70-103-2(3-5)	S	1	1							✓
.30	12/10/13	1670	TW-70-103-2(7-9)	S	1	1							✓
.31	12/11/13	0905	TW-70-103-3(0-2)	S	1	1							✓
.32	12/11/13	0910	TW-70-103-3(3-5)	S	1	1							✓
.33	12/11/13	0915	TW-70-103-3(7-9)	S	1	1							✓
.34	12/11/13	0920	TW-70-103-4(0-2)	S	1	1							✓
.35	12/11/13	0950	TW-70-103-4(3-5)	S	1	1							✓
.36	12/11/13	0955	TW-70-103-4(7-9)	S	1	1							✓
.37	12/11/13	1045	TW-70-103-5(0-2)	S	1	1							✓
.38	12/11/13	1050	TW-70-103-5(3-5)	S	1	1							✓
.39	12/4/13	1055	TW-70-103-5(7-9)	S	1	1							✓
.40	12/11/13	1120	TW-70-103-6(0-2)	S	1	1							✓
.41	12/11/13	1125	TW-70-103-6(3-5)	S	1	1							✓

#12013

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ RCD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

Special Instructions:

Relinquished By: Signature/Organization	☑ Sampler	Date: 12/11/13	Time: 1930
Received By: Signature/Organization		Date: 12-11-13	Time: 1430
Relinquished By: Signature/Organization		Date: 12/11/13	Time: 1530
Received By: Signature/Organization		Date:	Time:
Relinquished By: Signature/Organization		Date:	Time:
Received By: Signature/Organization		Date:	Time:

Seal No. | Seal Intact ☐ Yes ☐ No | Initials
Seal No. | Seal Intact ☐ Yes ☐ No | Initials

Notes: Temp. on arrival 4.2

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C.O.C. PAGE # 4 OF 4

76940

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Aimee Freeman, Tony Mathe, Drew Shaw, Erin Kocsis
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive St. 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248.994.2240 FAX NO.: 248.994.2241
P.O. NO.: ARCADIS WA~~638~~-039
E-MAIL ADDRESS: tony.mathe@arcadis-us.com, drew.shaw@arcadis-us.com, erin.kocsis@arcadis-us.com
QUOTE NO.: ARCADIS WA~~638~~-039

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: 30000494.0 2013. 00205 / Beach City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: A. Richmond / A. Richmond

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB	Special Instructions
59356.42	12/11/13	1130	TW-70-103-6(7-9)	S	1	1							✓	
.43.44.45	12/11/13	1345	TW-70-103-7(0-2)	S	3	3							✓	MS/MSD
.46	12/11/13	1350	TW-70-103-7(3-5)	S	1	1							✓	
.47	12/11/13	1355	TW-70-103-7(7-9)	S	1	1							✓	
.48	12/11/13	—	DUP-1	S	1	1							✓	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☑ Sampler ARCADIS	DATE 12/11/13	TIME 1430
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12-11-13	TIME 1430
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 12-11-13	TIME 1530
RECEIVED BY: SIGNATURE/ORGANIZATION	Kevin George	DATE 12/11/13	TIME 1530
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.2

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S59376.01(01)
Generated on 12/30/2013

Report to

Attention: Micki Maki
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1909 FAX: 248-994-2241
Email: micki.maki@ARCADIS-US.com

Addtional Contacts: Amee Freeman, Drew Shaw, Victoria Stacey

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S59376.01-S59376.11
Project: B0064410.2013.00206
Collected Date: 12/11/2013 - 12/12/2013
Submitted Date/Time: 12/12/2013 15:35
Sampled by: Drew Shaw
P.O. #: B0064410.2013.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified.Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (11 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S59376.01	TW-DH-RW-3-1(3-5)	Soil	12/11/2013 15:40
S59376.02	TW-DH-RW-3-1(5-7)	Soil	12/11/2013 15:45
S59376.03	TW-DH-RW-3-1(9-11)	Soil	12/11/2013 15:50
S59376.04	TW-DH-RW-3-2(3-5)	Soil	12/12/2013 09:10
S59376.05	TW-DH-RW-3-2(9-11)	Soil	12/12/2013 09:20
S59376.06	TW-DH-RW-3-3(3-5)	Soil	12/12/2013 10:40
S59376.07	TW-DH-RW-3-3(5-7)	Soil	12/12/2013 10:45
S59376.08	TW-DH-RW-3-3(9-11)	Soil	12/12/2013 11:15
S59376.09	TW-DH-RW-3-4(3-5)	Soil	12/12/2013 13:45
S59376.10	TW-DH-RW-3-4(5-7)	Soil	12/12/2013 14:05
S59376.11	TW-DH-RW-3-4(9-11)	Soil	12/12/2013 14:20

Analytical Laboratory Report

Lab Sample ID: S59376.01
Sample Tag: TW-DH-RW-3-1(3-5)
Collected Date/Time: 12/11/2013 15:40
Matrix: Soil
COC Reference: 76939

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/20/13 15:22	JAN	12674-11-2	
PCB-1242	700	ug/kg	330	SW8082A	12/20/13 15:22	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/20/13 15:22	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/20/13 15:22	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/20/13 15:22	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/20/13 15:22	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/20/13 15:22	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59376.02
Sample Tag: TW-DH-RW-3-1(5-7)
Collected Date/Time: 12/11/2013 15:45
Matrix: Soil
COC Reference: 76939

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/20/13 15:38	JAN	12674-11-2	
PCB-1242	340	ug/kg	330	SW8082A	12/20/13 15:38	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/20/13 15:38	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/20/13 15:38	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/20/13 15:38	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/20/13 15:38	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/20/13 15:38	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59376.03
Sample Tag: TW-DH-RW-3-1(9-11)
Collected Date/Time: 12/11/2013 15:50
Matrix: Soil
COC Reference: 76939

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	92	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	3,000	SW8082A	12/20/13 15:11	JAN	12674-11-2	Y
PCB-1242	22,000	ug/kg	3,000	SW8082A	12/20/13 15:11	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	3,000	SW8082A	12/20/13 15:11	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	3,000	SW8082A	12/20/13 15:11	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	3,000	SW8082A	12/20/13 15:11	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	3,000	SW8082A	12/20/13 15:11	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	3,000	SW8082A	12/20/13 15:11	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59376.04
Sample Tag: TW-DH-RW-3-2(3-5)
Collected Date/Time: 12/12/2013 09:10
Matrix: Soil
COC Reference: 76939

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/20/13 17:38	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/20/13 17:38	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/20/13 17:38	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/20/13 17:38	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/20/13 17:38	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/20/13 17:38	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/20/13 17:38	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59376.05
Sample Tag: TW-DH-RW-3-2(9-11)
Collected Date/Time: 12/12/2013 09:20
Matrix: Soil
COC Reference: 76939

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	88	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/20/13 15:51	JAN	12674-11-2	
PCB-1242	1,400	ug/kg	330	SW8082A	12/20/13 15:51	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/20/13 15:51	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/20/13 15:51	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/20/13 15:51	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/20/13 15:51	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/20/13 15:51	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59376.06
Sample Tag: TW-DH-RW-3-3(3-5)
Collected Date/Time: 12/12/2013 10:40
Matrix: Soil
COC Reference: 76939

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/20/13 16:02	JAN	12674-11-2	
PCB-1242	2,000	ug/kg	330	SW8082A	12/20/13 16:02	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/20/13 16:02	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/20/13 16:02	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/20/13 16:02	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/20/13 16:02	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/20/13 16:02	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59376.07
Sample Tag: TW-DH-RW-3-3(5-7)
Collected Date/Time: 12/12/2013 10:45
Matrix: Soil
COC Reference: 76939

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/20/13 17:03	JAN	12674-11-2	
PCB-1242	1,900	ug/kg	330	SW8082A	12/20/13 17:03	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/20/13 17:03	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/20/13 17:03	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/20/13 17:03	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/20/13 17:03	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/20/13 17:03	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59376.08
Sample Tag: TW-DH-RW-3-3(9-11)
Collected Date/Time: 12/12/2013 11:15
Matrix: Soil
COC Reference: 76939

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/19/13 09:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	6,000	SW8082A	12/20/13 14:34	JAN	12674-11-2	Y
PCB-1242	54,000	ug/kg	6,000	SW8082A	12/20/13 14:34	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	6,000	SW8082A	12/20/13 14:34	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	6,000	SW8082A	12/20/13 14:34	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	6,000	SW8082A	12/20/13 14:34	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	6,000	SW8082A	12/20/13 14:34	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	6,000	SW8082A	12/20/13 14:34	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59376.09
Sample Tag: TW-DH-RW-3-4(3-5)
Collected Date/Time: 12/12/2013 13:45
Matrix: Soil
COC Reference: 76939

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/27/13 10:00	RGS		F
Inorganics								
Total Solids	76	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/30/13 14:40	JAN	12674-11-2	G
PCB-1242	800	ug/kg	330	SW8082A	12/30/13 14:40	JAN	53469-21-9	G
PCB-1221	Not detected	ug/kg	330	SW8082A	12/30/13 14:40	JAN	11104-28-2	G
PCB-1232	Not detected	ug/kg	330	SW8082A	12/30/13 14:40	JAN	11141-16-5	G
PCB-1248	Not detected	ug/kg	330	SW8082A	12/30/13 14:40	JAN	12672-29-6	G
PCB-1254	Not detected	ug/kg	330	SW8082A	12/30/13 14:40	JAN	11097-69-1	G
PCB-1260	Not detected	ug/kg	330	SW8082A	12/30/13 14:40	JAN	11096-82-5	G

F-Analysis run outside of holding time
G-Estimated result due to extraction run outside of holding time

Analytical Laboratory Report

Lab Sample ID: S59376.10
Sample Tag: TW-DH-RW-3-4(5-7)
Collected Date/Time: 12/12/2013 14:05
Matrix: Soil
COC Reference: 76939

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/27/13 10:00	RGS		F
Inorganics								
Total Solids	82	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/30/13 14:50	JAN	12674-11-2	G
PCB-1242	1,800	ug/kg	330	SW8082A	12/30/13 14:50	JAN	53469-21-9	G
PCB-1221	Not detected	ug/kg	330	SW8082A	12/30/13 14:50	JAN	11104-28-2	G
PCB-1232	Not detected	ug/kg	330	SW8082A	12/30/13 14:50	JAN	11141-16-5	G
PCB-1248	Not detected	ug/kg	330	SW8082A	12/30/13 14:50	JAN	12672-29-6	G
PCB-1254	Not detected	ug/kg	330	SW8082A	12/30/13 14:50	JAN	11097-69-1	G
PCB-1260	Not detected	ug/kg	330	SW8082A	12/30/13 14:50	JAN	11096-82-5	G

F-Analysis run outside of holding time
G-Estimated result due to extraction run outside of holding time

Analytical Laboratory Report

Lab Sample ID: S59376.11
Sample Tag: TW-DH-RW-3-4(9-11)
Collected Date/Time: 12/12/2013 14:20
Matrix: Soil
COC Reference: 76939

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/27/13 10:00	RGS		F
Inorganics								
Total Solids	83	%	1	Std M 2540 B	12/16/13 17:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/30/13 15:01	JAN	12674-11-2	G
PCB-1242	1,000	ug/kg	330	SW8082A	12/30/13 15:01	JAN	53469-21-9	G
PCB-1221	Not detected	ug/kg	330	SW8082A	12/30/13 15:01	JAN	11104-28-2	G
PCB-1232	Not detected	ug/kg	330	SW8082A	12/30/13 15:01	JAN	11141-16-5	G
PCB-1248	Not detected	ug/kg	330	SW8082A	12/30/13 15:01	JAN	12672-29-6	G
PCB-1254	Not detected	ug/kg	330	SW8082A	12/30/13 15:01	JAN	11097-69-1	G
PCB-1260	Not detected	ug/kg	330	SW8082A	12/30/13 15:01	JAN	11096-82-5	G

F-Analysis run outside of holding time
G-Estimated result due to extraction run outside of holding time

Merit Laboratories, Inc.

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C.O.C. PAGE # 1 OF 1

76939

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Drew Shaw; Micki Maki, A. Freeman, V. Stacey
COMPANY: ARCADIS
ADDRESS: 28550 Cabot Dr. Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248-994-2240 | FAX NO.: 248-994-2241 | P.O. NO.: WA039
E-MAIL ADDRESS: drew.shaw; micki.macki, afreeman v.stacey | QUOTE NO.: WA039

INVOICE TO

CONTACT NAME: Christi Kiker | X SAME
COMPANY:
ADDRESS:
CITY | STATE | ZIP CODE:
PHONE NO. | E-MAIL ADDRESS:

PROJECT NO./NAME: B00644101.2013.00206
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Drew Shaw

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☒ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
59376.01	12/11/13	1540	~~FW-7B~~ Ae12/11/13 TW-DH-RW-3-1 (3-5)	S	1	1							✓
.02	12/11/13	1545	TW-DH-RW-3-1 ~~(7~~ Ae12/11/13 (5-7)	S	1	1							✓
.03	12/11/13	1550	TW-DH-RW-3-1 (9-11)	S	1	1							✓
.04	12/12/13	910	TW-DH-RW-3-2 (3-5)	S	1	X							X
.05	12/12/13	0920	TW-DH-RW-3-2 (9-11)	S	1	X							X
.06	12/12/13	1040	TW-DH-RW-3-3 (3-5)	S	1	X							X
.07	12/12/13	1045	TW-DH-RW-3-3 (5-7)	S	1	X							X
.08	12/12/13	1115	TW-DH-RW-3-3 (9-11)	S	1	X							X
.09	12/12/13	1345	TW-DH-RW-3-4 (3-5)	S	1	X							X
.10	12/12/13	1405	TW-DH-RW-3-4 (5-7)	S	1	X							X
.11	12/12/13	1420	TW-DH-RW-3-4 (9-11)	S	1	X							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION	X Sampler	DATE 12/12/13	TIME 1445
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12-12-13	TIME 1445
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 12/12/13	TIME 1535
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/12/13	TIME 1535
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

NOTES: TEMP. ON ARRIVAL 4.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S59625.01(01)
Generated on 01/14/2014

Report to

Attention: Drew Shaw
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: n/a FAX: 248-994-2241
Email: Drew.Shaw@arcadis-us.com

Addtional Contacts: Erin Kozak, Victoria Stacey, Micki Maki

Report produced by

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Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S59625.01-S59625.21
Project: B0064410.2014.00206 / Buick City RACER Flint, MI
Collected Date: 01/09/2014 - 01/10/2014
Submitted Date/Time: 01/10/2014 14:30
Sampled by: A. Richmond
P.O. #: B0064410.2014.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (21 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S59625.01	TW-DH-RW-3-5(5-7)	Soil	01/09/2014 10:10
S59625.02	TW-DH-RW-3-5(9-11)	Soil	01/09/2014 10:15
S59625.03	TW-DH-RW-3-5(13-15)	Soil	01/09/2014 10:20
S59625.04	TW-DH-RW-3-6(5-7)	Soil	01/09/2014 11:30
S59625.05	TW-DH-RW-3-6(9-11)	Soil	01/09/2014 11:35
S59625.06	TW-DH-RW-3-6(13-15)	Soil	01/09/2014 11:40
S59625.07	TW-DH-RW-3-7(5-7)	Soil	01/09/2014 15:25
S59625.08	TW-DH-RW-3-7(9-11)	Soil	01/09/2014 15:30
S59625.09	TW-DH-RW-3-7(13-15)	Soil	01/09/2014 15:35
S59625.10	TW-DH-RW-2-1(5-7)	Soil	01/10/2014 09:20
S59625.11	TW-DH-RW-2-1(9-11)	Soil	01/10/2014 09:25
S59625.12	TW-DH-RW-2-1(13-15)	Soil	01/10/2014 09:30
S59625.13	TW-DH-RW-2-2(5-7)	Soil	01/10/2014 10:10
S59625.14	TW-DH-RW-2-2(9-11)	Soil	01/10/2014 10:15
S59625.15	TW-DH-RW-2-2(13-15)	Soil	01/10/2014 10:20
S59625.16	TW-DH-RW-2-2(13-15) MS	Soil	01/10/2014 10:20
S59625.17	TW-DH-RW-2-2(13-15) MSD	Soil	01/10/2014 10:20
S59625.18	DUP-1	Soil	01/10/2014 00:01
S59625.19	TW-DH-RW-2-3(5-7)	Soil	01/10/2014 11:00
S59625.20	TW-DH-RW-2-3(9-11)	Soil	01/10/2014 11:05
S59625.21	TW-DH-RW-2-3(13-15)	Soil	01/10/2014 11:10

Analytical Laboratory Report

Lab Sample ID: S59625.01
Sample Tag: TW-DH-RW-3-5(5-7)
Collected Date/Time: 01/09/2014 10:10
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 10:00	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/13/14 17:11	ADB	12674-11-2	
PCB-1242	430	ug/kg	330	SW8082A	01/13/14 17:11	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/13/14 17:11	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/13/14 17:11	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/13/14 17:11	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/13/14 17:11	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/13/14 17:11	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59625.02
Sample Tag: TW-DH-RW-3-5(9-11)
Collected Date/Time: 01/09/2014 10:15
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/13/14 16:46	JAN	12674-11-2	
PCB-1242	1,700	ug/kg	330	SW8082A	01/13/14 16:46	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/13/14 16:46	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/13/14 16:46	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/13/14 16:46	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/13/14 16:46	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/13/14 16:46	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59625.03
Sample Tag: TW-DH-RW-3-5(13-15)
Collected Date/Time: 01/09/2014 10:20
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 10:00	RGS		
Inorganics								
Total Solids	79	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/13/14 15:04	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/13/14 15:04	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/13/14 15:04	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/13/14 15:04	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/13/14 15:04	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/13/14 15:04	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/13/14 15:04	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59625.04
Sample Tag: TW-DH-RW-3-6(5-7)
Collected Date/Time: 01/09/2014 11:30
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 10:00	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/13/14 15:15	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/13/14 15:15	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/13/14 15:15	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/13/14 15:15	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/13/14 15:15	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/13/14 15:15	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/13/14 15:15	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59625.05
Sample Tag: TW-DH-RW-3-6(9-11)
Collected Date/Time: 01/09/2014 11:35
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 10:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/13/14 15:25	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/13/14 15:25	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/13/14 15:25	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/13/14 15:25	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/13/14 15:25	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/13/14 15:25	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/13/14 15:25	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59625.06
Sample Tag: TW-DH-RW-3-6(13-15)
Collected Date/Time: 01/09/2014 11:40
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 10:00	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/13/14 15:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/13/14 15:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/13/14 15:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/13/14 15:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/13/14 15:36	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/13/14 15:36	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/13/14 15:36	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59625.07
Sample Tag: TW-DH-RW-3-7(5-7)
Collected Date/Time: 01/09/2014 15:25
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 10:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/13/14 15:46	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/13/14 15:46	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/13/14 15:46	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/13/14 15:46	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/13/14 15:46	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/13/14 15:46	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/13/14 15:46	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59625.08
Sample Tag: TW-DH-RW-3-7(9-11)
Collected Date/Time: 01/09/2014 15:30
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 10:00	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/13/14 15:57	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/13/14 15:57	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/13/14 15:57	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/13/14 15:57	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/13/14 15:57	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/13/14 15:57	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/13/14 15:57	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59625.09
Sample Tag: TW-DH-RW-3-7(13-15)
Collected Date/Time: 01/09/2014 15:35
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 10:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/13/14 16:07	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/13/14 16:07	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/13/14 16:07	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/13/14 16:07	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/13/14 16:07	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/13/14 16:07	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/13/14 16:07	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59625.10
Sample Tag: TW-DH-RW-2-1(5-7)
Collected Date/Time: 01/10/2014 09:20
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 10:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/14/14 11:54	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/14/14 11:54	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/14/14 11:54	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/14/14 11:54	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/14/14 11:54	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/14/14 11:54	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/14/14 11:54	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59625.11
Sample Tag: TW-DH-RW-2-1(9-11)
Collected Date/Time: 01/10/2014 09:25
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/14/14 12:04	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/14/14 12:04	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/14/14 12:04	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/14/14 12:04	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/14/14 12:04	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/14/14 12:04	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/14/14 12:04	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59625.12
Sample Tag: TW-DH-RW-2-1(13-15)
Collected Date/Time: 01/10/2014 09:30
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 10:00	RGS		
Inorganics								
Total Solids	79	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/13/14 16:18	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/13/14 16:18	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/13/14 16:18	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/13/14 16:18	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/13/14 16:18	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/13/14 16:18	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/13/14 16:18	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59625.13
Sample Tag: TW-DH-RW-2-2(5-7)
Collected Date/Time: 01/10/2014 10:10
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 12:00	RGS		
Inorganics								
Total Solids	89	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/14/14 14:08	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/14/14 14:08	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/14/14 14:08	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/14/14 14:08	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/14/14 14:08	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/14/14 14:08	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/14/14 14:08	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59625.14
Sample Tag: TW-DH-RW-2-2(9-11)
Collected Date/Time: 01/10/2014 10:15
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 12:00	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	01/14/14 11:30	JAN	12674-11-2	Y
PCB-1242	3,500	ug/kg	600	SW8082A	01/14/14 11:30	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	01/14/14 11:30	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	01/14/14 11:30	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	01/14/14 11:30	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	600	SW8082A	01/14/14 11:30	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	01/14/14 11:30	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59625.15
Sample Tag: TW-DH-RW-2-2(13-15)
Collected Date/Time: 01/10/2014 10:20
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 10:00	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/13/14 13:10	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/13/14 13:10	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/13/14 13:10	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/13/14 13:10	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/13/14 13:10	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/13/14 13:10	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/13/14 13:10	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59625.16
Sample Tag: TW-DH-RW-2-2(13-15) MS
Collected Date/Time: 01/10/2014 10:20
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 10:00	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	25	ug/kg	330	SW8082A	01/13/14 13:35	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/13/14 13:35	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/13/14 13:35	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/13/14 13:35	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/13/14 13:35	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/13/14 13:35	JAN	11097-69-1	
PCB-1260	25	ug/kg	330	SW8082A	01/13/14 13:35	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59625.17
Sample Tag: TW-DH-RW-2-2(13-15) MSD
Collected Date/Time: 01/10/2014 10:20
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 10:00	RGS		
Inorganics								
Total Solids	80	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	30	ug/kg	330	SW8082A	01/13/14 13:46	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/13/14 13:46	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/13/14 13:46	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/13/14 13:46	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/13/14 13:46	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/13/14 13:46	JAN	11097-69-1	
PCB-1260	30	ug/kg	330	SW8082A	01/13/14 13:46	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59625.18
Sample Tag: DUP-1
Collected Date/Time: 01/10/2014 00:01
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 12:00	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	01/14/14 11:43	JAN	12674-11-2	Y
PCB-1242	2,900	ug/kg	600	SW8082A	01/14/14 11:43	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	01/14/14 11:43	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	01/14/14 11:43	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	01/14/14 11:43	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	600	SW8082A	01/14/14 11:43	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	01/14/14 11:43	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59625.19
Sample Tag: TW-DH-RW-2-3(5-7)
Collected Date/Time: 01/10/2014 11:00
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 12:00	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/14/14 14:19	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/14/14 14:19	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/14/14 14:19	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/14/14 14:19	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/14/14 14:19	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/14/14 14:19	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/14/14 14:19	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59625.20
Sample Tag: TW-DH-RW-2-3(9-11)
Collected Date/Time: 01/10/2014 11:05
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 12:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/14/14 12:15	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/14/14 12:15	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/14/14 12:15	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/14/14 12:15	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/14/14 12:15	JAN	12672-29-6	
PCB-1254	450	ug/kg	330	SW8082A	01/14/14 12:15	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/14/14 12:15	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59625.21
Sample Tag: TW-DH-RW-2-3(13-15)
Collected Date/Time: 01/10/2014 11:10
Matrix: Soil
COC Reference: BC011014-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/13/14 12:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	01/10/14 17:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/14/14 11:20	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/14/14 11:20	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/14/14 11:20	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/14/14 11:20	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/14/14 11:20	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/14/14 11:20	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/14/14 11:20	JAN	11096-82-5	

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 C.O.C I.D.# BC011014-1

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Drew Shaw, Erin Kozak, Victoria Stacey, Micki Maki
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241 | P.O. NO.: ARCADIS WA045
EMAIL ADDRES: drew.shaw@arcadis-us.com; erin.kozak@arcadis-us.com; victoria.stacey@arcadis-us.com; micki.macki@arcadis-us.com
QUOTE NO.: ARCADIS WA045

INVOICE TO

☑ SAME

CONTACT NAME: Christi Kiker
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B0064410.2014.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: A. Richmond

TURNAROUND TIME REQUIRED: ☐1 DAY ☐2 DAYS ☐3 DAYS ☐STANDARD ☑OTHER 5 DAY

DELIVERABLES REQUIRED: ☐LEVEL I ☑LEVEL II ☐LEVEL III ☐LEVEL IV ☑EDD ☐OTHER

Matrix Code: GW=Groundwater WW=Waste Water S=Soil L=Liquid SD=Solid SL=Sludge DW=Drinking Water O=Oil A=Air W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐Ohio VAP ☐Drinking Water ☐DoD ☐NPDES
Project Locations: ☐Detroit ☐New York ☑Other

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB	Special Instructions
	1/9/13	1010	TW-DH-RW-3-5 (5-7)	S	1	X							×	59625.01
	1/9/13	1015	TW-DH-RW-3-5 (9-11)	S	1	X							×	.02
	1/9/13	1020	TW-DH-RW-3-5 (13-15)	S	1	X							×	.03
	1/9/13	1130	TW-DH-RW-3-6 (5-7)	S	1	X							×	.04
	1/9/13	1135	TW-DH-RW-3-6 (9-11)	S	1	X							×	.05
	1/9/13	1140	TW-DH-RW-3-6 (13-15)	S	1	X							×	.06
2014 MC 01/10/14	1/9/13	1525	TW-DH-RW-3-7 (5-7)	S	1	X							×	.07
	1/9/13	1530	TW-DH-RW-3-7 (9-11)	S	1	X							×	.08
	1/9/13	1535	TW-DH-RW-3-7 (13-15)	S	1	X							×	.09
	1/10/13	0920	TW-DH-RW-2-1 (5-7)	S	1	X							×	.10
	1/10/13	0925	TW-DH-RW-2-1 (9-11)	S	1	X							×	.11
	1/10/13	0930	TW-DH-RW-2-1 (13-15)	S	1	X							×	.12
	1/10/13	1010	TW-DH-RW-2-2 (5-7)	S	1	X							×	.13

Relinquished By: Signature/Organization: ARCADIS ☑Sampler — Date: 1/10/14 Time: 1300
Recieved By: Signature/Organization: — Date: 1-10-14 Time: 1450
Relinquished By: Signature/Organization: — Date: Time:
Recieved By: Signature/Organization: — Date: Time:

Relinquished By: Signature/Organization: — Date: 1-10-14 Time: 1450
Recieved By: Signature/Organization: Kevin George — Date: 1/10/14 Time: 1430

Seal No. | Seal Intact ☐Yes ☐No | Initals
Seal No. | Seal Intact ☐Yes ☐No | Initals

Notes: Temp. on arrival 5.0

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 C.O.C I.D.# BC011014-1

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Drew Shaw, Erin Kozak, Victoria Stacey, Micki Maki
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241 | P.O. NO.: ARCADIS WA045
EMAIL ADDRES: drew.shaw@arcadis-us.com; erin.kozak@arcadis-us.com; victoria.stacey@arcadis-us.com; micki.macki@arcadis-us.com | QUOTE NO.: ARCADIS WA045

INVOICE TO

☑ SAME

CONTACT NAME: Christi Kiker
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B0064410.2014.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: A. Richmond

TURNAROUND TIME REQUIRED: ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☑ OTHER 5 DAY

DELIVERABLES REQUIRED: ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Code: GW=Groundwater WW=Waste Water S=Soil L=Liquid SD=Solid SL=Sludge DW=Drinking Water O=Oil A=Air W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

MERIT LAB NO FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB	Special Instructions
2014	1/10/13	1015	TW-DH-RW-2-2(9-11)	S	1	X							X	59625.14
2014	1/10/13	1020	TW-DH-RW-2-2(13-15)	S	3	X							X	MS/MSD .15, .16, .17
2014	1/10/13	1010	DUP-1	S	1	X							X	.18
	1/10/14	1100	TW-DH-RW-2-3(5-7)	S	1	X							X	.19
	1/10/14	1105	TW-DH-RW-2-3(9-11)	S	1	X							X	.20
	1/10/14	1110	TW-DH-RW-2-3(13-15)	S	1	X							X	.21
				S		X							X	
				S		X							X	
				S		X							X	
				S		X							X	
				S		X							X	
				S		X							X	
				S		X							X	

Relinquished By: Signature/Organization	☑ Sampler	Date	Time	
Received By: Signature/Organization		Date	Time	
Relinquished By: Signature/Organization		Date	Time	
Received By: Signature/Organization		Date	Time	

Relinquished By: Signature/Organization			Date 1-10-14	Time 1430
Received By: Signature/Organization			Date 1/10/14	Time 1430
Seal No.	Seal Intact ☐ Yes ☐ No	Initials	Notes: Temp. on arrival 5°	
Seal No.	Seal Intact ☐ Yes ☐ No	Initials		

Analytical Laboratory Report

Report ID: S59659.01(01)
Generated on 01/20/2014

Report to

Attention: Drew Shaw
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: n/a FAX: 248-994-2241
Email: Drew.Shaw@arcadis-us.com

Addtional Contacts: Erin Kozak, Victoria Stacey, Micki Maki

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S59659.01-S59659.21
Project: B0064410.2014.00206 / Buick City RACER Flint, MI
Collected Date: 01/10/2014 - 01/13/2014
Submitted Date/Time: 01/14/2014 14:15
Sampled by: A. Richmond
P.O. #: B0064410.2014.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (21 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S59659.01	TW-DH-RW-2-4(5-7)	Soil	01/10/2014 11:45
S59659.02	TW-DH-RW-2-4(9-11)	Soil	01/10/2014 11:50
S59659.03	TW-DH-RW-2-4(13-15)	Soil	01/10/2014 11:55
S59659.04	TW-DH-RW-2-5(5-7)	Soil	01/10/2014 14:30
S59659.05	TW-DH-RW-2-5(9-11)	Soil	01/10/2014 14:35
S59659.06	TW-DH-RW-2-5(13-15)	Soil	01/10/2014 14:40
S59659.07	TW-DH-RW-2-6(5-7)	Soil	01/10/2014 15:00
S59659.08	TW-DH-RW-2-6(9-11)	Soil	01/10/2014 15:05
S59659.09	TW-DH-RW-2-6(13-15)	Soil	01/10/2014 15:10
S59659.10	TW-DH-RW-2-7(5-7)	Soil	01/10/2014 15:55
S59659.11	TW-DH-RW-2-7(9-11)	Soil	01/10/2014 16:00
S59659.12	TW-DH-RW-2-7(13-15)	Soil	01/10/2014 16:05
S59659.13	TW-DH-RW-1-1(5-7)	Soil	01/13/2014 09:15
S59659.14	TW-DH-RW-1-1(9-11)	Soil	01/13/2014 09:20
S59659.15	DUP-1	Soil	01/13/2014 00:01
S59659.16	TW-DH-RW-1-1(13-15)	Soil	01/13/2014 09:25
S59659.17	TW-DH-RW-1-1(13-15) MS	Soil	01/13/2014 09:25
S59659.18	TW-DH-RW-1-1(13-15) MSD	Soil	01/13/2014 09:25
S59659.19	TW-DH-RW-1-2(5-7)	Soil	01/13/2014 10:40
S59659.20	TW-DH-RW-1-2(9-11)	Soil	01/13/2014 10:45
S59659.21	TW-DH-RW-1-2(13-15)	Soil	01/13/2014 10:50

Analytical Laboratory Report

Lab Sample ID: S59659.01
Sample Tag: TW-DH-RW-2-4(5-7)
Collected Date/Time: 01/10/2014 11:45
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/15/14 12:00	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	01/14/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/17/14 13:56	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/17/14 13:56	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/17/14 13:56	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/17/14 13:56	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/17/14 13:56	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/17/14 13:56	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/17/14 13:56	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.02
Sample Tag: TW-DH-RW-2-4(9-11)
Collected Date/Time: 01/10/2014 11:50
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/15/14 12:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	01/14/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/17/14 14:17	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/17/14 14:17	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/17/14 14:17	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/17/14 14:17	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/17/14 14:17	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/17/14 14:17	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/17/14 14:17	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.03
Sample Tag: TW-DH-RW-2-4(13-15)
Collected Date/Time: 01/10/2014 11:55
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/15/14 12:00	RGS		
Inorganics								
Total Solids	77	%	1	Std M 2540 B	01/14/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/16/14 19:11	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/16/14 19:11	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/16/14 19:11	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/16/14 19:11	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/16/14 19:11	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/16/14 19:11	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/16/14 19:11	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.04
Sample Tag: TW-DH-RW-2-5(5-7)
Collected Date/Time: 01/10/2014 14:30
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/15/14 12:00	RGS		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	01/14/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/17/14 14:46	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/17/14 14:46	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/17/14 14:46	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/17/14 14:46	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/17/14 14:46	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/17/14 14:46	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/17/14 14:46	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.05
Sample Tag: TW-DH-RW-2-5(9-11)
Collected Date/Time: 01/10/2014 14:35
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/15/14 12:00	RGS		
Inorganics								
Total Solids	79	%	1	Std M 2540 B	01/14/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/16/14 19:21	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/16/14 19:21	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/16/14 19:21	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/16/14 19:21	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/16/14 19:21	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/16/14 19:21	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/16/14 19:21	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.06
Sample Tag: TW-DH-RW-2-5(13-15)
Collected Date/Time: 01/10/2014 14:40
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/15/14 12:00	RGS		
Inorganics								
Total Solids	78	%	1	Std M 2540 B	01/14/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/16/14 19:32	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/16/14 19:32	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/16/14 19:32	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/16/14 19:32	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/16/14 19:32	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/16/14 19:32	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/16/14 19:32	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.07
Sample Tag: TW-DH-RW-2-6(5-7)
Collected Date/Time: 01/10/2014 15:00
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/15/14 12:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	01/14/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/16/14 19:42	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/16/14 19:42	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/16/14 19:42	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/16/14 19:42	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/16/14 19:42	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/16/14 19:42	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/16/14 19:42	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.08
Sample Tag: TW-DH-RW-2-6(9-11)
Collected Date/Time: 01/10/2014 15:05
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/15/14 12:00	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	01/14/14 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/16/14 20:03	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/16/14 20:03	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/16/14 20:03	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/16/14 20:03	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/16/14 20:03	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/16/14 20:03	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/16/14 20:03	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.09
Sample Tag: TW-DH-RW-2-6(13-15)
Collected Date/Time: 01/10/2014 15:10
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/15/14 12:00	RGS		
Inorganics								
Total Solids	80	%	1	Std M 2540 B	01/14/14 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/16/14 19:53	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/16/14 19:53	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/16/14 19:53	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/16/14 19:53	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/16/14 19:53	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/16/14 19:53	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/16/14 19:53	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.10
Sample Tag: TW-DH-RW-2-7(5-7)
Collected Date/Time: 01/10/2014 15:55
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/15/14 12:00	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	01/14/14 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/16/14 20:14	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/16/14 20:14	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/16/14 20:14	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/16/14 20:14	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/16/14 20:14	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/16/14 20:14	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/16/14 20:14	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.11
Sample Tag: TW-DH-RW-2-7(9-11)
Collected Date/Time: 01/10/2014 16:00
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/16/14 09:00	RGS		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	01/14/14 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/17/14 17:42	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/17/14 17:42	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/17/14 17:42	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/17/14 17:42	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/17/14 17:42	ADB	12672-29-6	
PCB-1254	550	ug/kg	330	SW8082A	01/17/14 17:42	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/17/14 17:42	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.12
Sample Tag: TW-DH-RW-2-7(13-15)
Collected Date/Time: 01/10/2014 16:05
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/16/14 09:00	RGS		
Inorganics								
Total Solids	80	%	1	Std M 2540 B	01/14/14 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/16/14 20:24	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/16/14 20:24	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/16/14 20:24	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/16/14 20:24	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/16/14 20:24	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/16/14 20:24	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/16/14 20:24	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.13
Sample Tag: TW-DH-RW-1-1(5-7)
Collected Date/Time: 01/13/2014 09:15
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/16/14 09:00	RGS		
Inorganics								
Total Solids	89	%	1	Std M 2540 B	01/14/14 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/17/14 18:11	ADB	12674-11-2	
PCB-1242	1,400	ug/kg	330	SW8082A	01/17/14 18:11	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/17/14 18:11	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/17/14 18:11	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/17/14 18:11	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/17/14 18:11	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/17/14 18:11	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.14
Sample Tag: TW-DH-RW-1-1(9-11)
Collected Date/Time: 01/13/2014 09:20
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/16/14 09:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	01/14/14 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/17/14 15:15	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/17/14 15:15	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/17/14 15:15	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/17/14 15:15	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/17/14 15:15	ADB	12672-29-6	
PCB-1254	900	ug/kg	330	SW8082A	01/17/14 15:15	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/17/14 15:15	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.15
Sample Tag: DUP-1
Collected Date/Time: 01/13/2014 00:01
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/16/14 09:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	01/14/14 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/17/14 15:25	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/17/14 15:25	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/17/14 15:25	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/17/14 15:25	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/17/14 15:25	ADB	12672-29-6	
PCB-1254	700	ug/kg	330	SW8082A	01/17/14 15:25	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/17/14 15:25	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.16
Sample Tag: TW-DH-RW-1-1(13-15)
Collected Date/Time: 01/13/2014 09:25
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/16/14 09:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	01/14/14 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/16/14 16:15	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/16/14 16:15	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/16/14 16:15	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/16/14 16:15	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/16/14 16:15	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/16/14 16:15	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/16/14 16:15	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.17
Sample Tag: TW-DH-RW-1-1(13-15) MS
Collected Date/Time: 01/13/2014 09:25
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/16/14 09:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	01/14/14 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	30	ug/kg	330	SW8082A	01/16/14 16:25	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/16/14 16:25	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/16/14 16:25	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/16/14 16:25	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/16/14 16:25	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/16/14 16:25	ADB	11097-69-1	
PCB-1260	30	ug/kg	330	SW8082A	01/16/14 16:25	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.18
Sample Tag: TW-DH-RW-1-1(13-15) MSD
Collected Date/Time: 01/13/2014 09:25
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/16/14 09:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	01/14/14 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	26	ug/kg	330	SW8082A	01/16/14 16:37	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/16/14 16:37	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/16/14 16:37	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/16/14 16:37	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/16/14 16:37	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/16/14 16:37	ADB	11097-69-1	
PCB-1260	26	ug/kg	330	SW8082A	01/16/14 16:37	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.19
Sample Tag: TW-DH-RW-1-2(5-7)
Collected Date/Time: 01/13/2014 10:40
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/16/14 09:00	RGS		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	01/14/14 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,200	SW8082A	01/17/14 17:19	ADB	12674-11-2	Y
PCB-1242	10,800	ug/kg	1,200	SW8082A	01/17/14 17:19	ADB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,200	SW8082A	01/17/14 17:19	ADB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,200	SW8082A	01/17/14 17:19	ADB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,200	SW8082A	01/17/14 17:19	ADB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	1,200	SW8082A	01/17/14 17:19	ADB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,200	SW8082A	01/17/14 17:19	ADB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59659.20
Sample Tag: TW-DH-RW-1-2(9-11)
Collected Date/Time: 01/13/2014 10:45
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/16/14 09:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	01/14/14 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/17/14 18:38	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/17/14 18:38	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/17/14 18:38	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/17/14 18:38	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/17/14 18:38	ADB	12672-29-6	
PCB-1254	1,000	ug/kg	330	SW8082A	01/17/14 18:38	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/17/14 18:38	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59659.21
Sample Tag: TW-DH-RW-1-2(13-15)
Collected Date/Time: 01/13/2014 10:50
Matrix: Soil
COC Reference: BC011414-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/16/14 09:00	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	01/14/14 18:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/16/14 20:35	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/16/14 20:35	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/16/14 20:35	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/16/14 20:35	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/16/14 20:35	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/16/14 20:35	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/16/14 20:35	ADB	11096-82-5	

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
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 C.O.C I.D.# BC011414-1

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Drew Shaw, Erin Kozak, Victoria Stacey, Micki Maki
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO: 248.994.2241
P.O. NO.: ARCADIS WA045
E-MAIL ADDRESS: drew.shaw@arcadis-us.com; erin.kozak@arcadis-us.com; victoria.stacey@arcadis-us.com; micki.macki@arcadis-us.com
QUOTE NO.: ARCADIS WA045

INVOICE TO

☑ SAME

CONTACT NAME: Christi Kiker
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B0064410.2014.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: A. Richmond

TURNAROUND TIME REQUIRED: ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☑ OTHER 5 DAY

DELIVERABLES REQUIRED: ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Codes: GW=Groundwater WW=Waste Water S=Soil L=Liquid SD=Solid SL=Sludge DW=Drinking Water O=Oil A=Air W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB
59659.01	1/10/14	1145	~~DT~~ TW-DH-RW-2-4 (5-7) MC 01/10/14	S	1	X							X
.02	1/10/14	1150	TW-DH-RW-2-4 (9-11)	S	1	X							X
.03	1/10/14	1155	TW-DH-RW-2-4 (13-15)	S	1	X							X
.04	1/10/14	1430	TW-DH-RW-2-5 (5-7)	S	1	X							X
.05	1/10/14	1435	TW-DH-RW-2-5 (9-11)	S	1	X							X
.06	1/10/14	1440	TW-DH-RW-2-5 (13-15)	S	1	X							X
.07	1/10/14	1500	TW-DH-RW-2-6 (5-7) MC 01/10/14	S	1	X							X
.08	1/10/14	1505	TW-DH-RW-2-6 ~~(5-7)~~ (9-11)	S	1	X							X
.09	1/10/14	1510	TW-DH-RW-2-6 (13-15)	S	1	X							X
.10	1/10/14	1555	TW-DH-RW-2-7 (5-7)	S	1	X							X
.11	1/10/14	1600	TW-DH-RW-2-7 (9-11)	S	1	X							X
.12	1/10/14	1605	TW-DH-RW-2-7 (13-15)	S	1	X							X
.13	1/13/14	0915	TW-DH-RW-1-1 (5-7)	S	1	X							X

Relinquished By: Arcadis — ☑ Sampler — Date: 1/14/14 — Time: 0930
Received By: — Date: 1-14-14 — Time: 1130
Relinquished By: — Date: — Time:
Received By: — Date: — Time:

Relinquished By: — Date: 1-14-14 — Time: 1415
Received By: Karen George — Date: 1/14/14 — Time: 1415
Seal No.: — Seal Intact: ☐ Yes ☐ No — Initials:
Seal No.: — Seal Intact: ☐ Yes ☐ No — Initials:

Notes: Temp. on arrival 5.0

jy rec 1/14

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. Page # 2 of 2 C.O.C. I.D.# BC011443-1

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Drew Shaw, Erin Kozak, Victoria Stacey, Micki Maki
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241
P.O. NO.: ARCADIS WA045
EMAIL ADDRESS: drew.shaw@arcadis-us.com; erin.kozak@arcadis-us.com; victoria.stacey@arcadis-us.com; micki.macki@arcadis-us.com
QUOTE NO.: ARCADIS WA045

INVOICE TO

☑ SAME

CONTACT NAME: Christi Kiker
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B0064410.2014.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: A. Richmond

TURNAROUND TIME REQUIRED: ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☑ OTHER 5 DAY

DELIVERABLES REQUIRED: ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Code: GW=Groundwater WW=Waste Water S=Soil L=Liquid SD=Solid SL=Sludge DW=Drinking Water O=Oil A=Air W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MECH	OTHER	PCB	Special Instructions
59659.14	1/13/14	0926	TW-DH-RW-1-1(9-11)	S	1	X							X	
.15	1/13/14	—	DUP-1	S	1	X							X	
.16,.17,.18	1/13/14	0925	TW-DH-RW-1-1(13-15)	S	3	X							X	MS/MSD
.19	1/13/14	1040	TW-DH-RW-1-2(5-7)	S	1	X							X	
.20	1/13/14	1045	TW-DH-RW-1-2(9-11)	S	1	X							X	
.21	1/13/14	1050	TW-DH-RW-1-2(13-15)	S	1	X							X	
				S		X							X	
				S		X							X	
				S		X							X	
				S		X							X	
				S		X							X	
				S		X							X	
				S		X							X	

Relinquished By / Signature/Organization: ☑ Sampler — ARCADIS — Date 1/14/14 Time 0930
Received By / Signature/Organization — Date 1-14-14 Time 1130
Relinquished By — Date — Time
Received By — Date — Time

Relinquished By / Signature/Organization — Date 1.14.14 Time 1415
Received By / Signature/Organization: Kevin George — Date 1/14/14 Time 1415

Seal No. — Seal Intact: ☐ Yes ☐ No — Initials
Seal No. — Seal Intact: ☐ Yes ☐ No — Initials

Notes: Temp. on arrival 5.2

Analytical Laboratory Report

Report ID: S59674.01(01)
Generated on 01/20/2014

Report to

Attention: Drew Shaw
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 248-994-2314 FAX: 248-994-2241
Email: Drew.Shaw@arcadis-us.com

Addtional Contacts: Erin Kozak, Victoria Stacey, Micki Maki

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S59674.01-S59674.21
Project: B0064410.2014.00206 / Buick City RACER Flint, MI
Collected Date: 01/13/2014 - 01/14/2014
Submitted Date/Time: 01/15/2014 13:30
Sampled by: A. Richmond
P.O. #: B0064410.2014.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (21 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S59674.01	TW-DH-RW-1-3(5-7)	Soil	01/13/2014 12:50
S59674.02	TW-DH-RW-1-3(9-11)	Soil	01/13/2014 12:55
S59674.03	TW-DH-RW-1-3(13-15)	Soil	01/13/2014 13:00
S59674.04	TW-DH-RW-1-4(5-7)	Soil	01/13/2014 14:55
S59674.05	TW-DH-RW-1-4(9-11)	Soil	01/13/2014 15:00
S59674.06	TW-DH-RW-1-4(13-15)	Soil	01/13/2014 15:05
S59674.07	TW-DH-RW-1-5(5-7)	Soil	01/13/2014 15:55
S59674.08	TW-DH-RW-1-5(9-11)	Soil	01/13/2014 16:00
S59674.09	TW-DH-RW-1-5(13-15)	Soil	01/13/2014 16:05
S59674.10	TW-DH-RW-1-6(5-7)	Soil	01/14/2014 09:05
S59674.11	TW-DH-RW-1-6(9-11)	Soil	01/14/2014 09:10
S59674.12	TW-DH-RW-1-6(13-15)	Soil	01/14/2014 09:15
S59674.13	TW-DH-RW-1-7(5-7)	Soil	01/14/2014 10:05
S59674.14	TW-DH-RW-1-7(9-11)	Soil	01/14/2014 10:10
S59674.15	TW-DH-RW-1-7(13-15)	Soil	01/14/2014 10:15
S59674.16	TW-43-165-1(5-7)	Soil	01/14/2014 11:45
S59674.17	TW-43-165-1(9-11)	Soil	01/14/2014 11:50
S59674.18	DUP-1	Soil	01/14/2014 00:01
S59674.19	TW-43-165-1(13-15)	Soil	01/14/2014 11:55
S59674.20	TW-43-165-1(13-15) MS	Soil	01/14/2014 11:55
S59674.21	TW-43-165-1(13-15) MSD	Soil	01/14/2014 11:55

Analytical Laboratory Report

Lab Sample ID: S59674.01
Sample Tag: TW-DH-RW-1-3(5-7)
Collected Date/Time: 01/13/2014 12:50
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/16/14 09:00	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	01/16/14 10:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/16/14 15:08	ADB	12674-11-2	
PCB-1242	470	ug/kg	330	SW8082A	01/16/14 15:08	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/16/14 15:08	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/16/14 15:08	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/16/14 15:08	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/16/14 15:08	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/16/14 15:08	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59674.02
Sample Tag: TW-DH-RW-1-3(9-11)
Collected Date/Time: 01/13/2014 12:55
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/16/14 09:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	01/16/14 10:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/17/14 15:57	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/17/14 15:57	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/17/14 15:57	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/17/14 15:57	ADB	11141-16-5	
PCB-1248	780	ug/kg	330	SW8082A	01/17/14 15:57	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/17/14 15:57	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/17/14 15:57	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59674.03
Sample Tag: TW-DH-RW-1-3(13-15)
Collected Date/Time: 01/13/2014 13:00
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/16/14 09:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	01/16/14 10:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/16/14 20:45	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/16/14 20:45	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/16/14 20:45	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/16/14 20:45	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/16/14 20:45	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/16/14 20:45	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/16/14 20:45	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59674.04
Sample Tag: TW-DH-RW-1-4(5-7)
Collected Date/Time: 01/13/2014 14:55
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/16/14 09:00	RGS		
Inorganics								
Total Solids	88	%	1	Std M 2540 B	01/16/14 10:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/17/14 17:31	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/17/14 17:31	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/17/14 17:31	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/17/14 17:31	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/17/14 17:31	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/17/14 17:31	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/17/14 17:31	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59674.05
Sample Tag: TW-DH-RW-1-4(9-11)
Collected Date/Time: 01/13/2014 15:00
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/16/14 09:00	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	01/16/14 10:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/17/14 16:10	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/17/14 16:10	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/17/14 16:10	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/17/14 16:10	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/17/14 16:10	ADB	12672-29-6	
PCB-1254	490	ug/kg	330	SW8082A	01/17/14 16:10	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/17/14 16:10	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59674.06
Sample Tag: TW-DH-RW-1-4(13-15)
Collected Date/Time: 01/13/2014 15:05
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/16/14 09:00	RGS		
Inorganics								
Total Solids	77	%	1	Std M 2540 B	01/16/14 10:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/16/14 20:56	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/16/14 20:56	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/16/14 20:56	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/16/14 20:56	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/16/14 20:56	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/16/14 20:56	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/16/14 20:56	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59674.07
Sample Tag: TW-DH-RW-1-5(5-7)
Collected Date/Time: 01/13/2014 15:55
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/17/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	01/16/14 10:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	01/20/14 13:13	JAN	12674-11-2	Y
PCB-1242	5,000	ug/kg	500	SW8082A	01/20/14 13:13	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	01/20/14 13:13	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	01/20/14 13:13	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	01/20/14 13:13	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	500	SW8082A	01/20/14 13:13	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	01/20/14 13:13	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59674.08
Sample Tag: TW-DH-RW-1-5(9-11)
Collected Date/Time: 01/13/2014 16:00
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/17/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	01/16/14 10:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 13:40	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 13:40	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 13:40	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 13:40	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 13:40	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 13:40	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 13:40	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59674.09
Sample Tag: TW-DH-RW-1-5(13-15)
Collected Date/Time: 01/13/2014 16:05
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/17/14 10:00	RGS		
Inorganics								
Total Solids	78	%	1	Std M 2540 B	01/16/14 10:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 12:00	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 12:00	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 12:00	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 12:00	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 12:00	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 12:00	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 12:00	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59674.10
Sample Tag: TW-DH-RW-1-6(5-7)
Collected Date/Time: 01/14/2014 09:05
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/17/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	01/16/14 10:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	01/20/14 13:24	JAN	12674-11-2	Y
PCB-1242	4,000	ug/kg	500	SW8082A	01/20/14 13:24	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	01/20/14 13:24	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	01/20/14 13:24	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	01/20/14 13:24	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	500	SW8082A	01/20/14 13:24	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	01/20/14 13:24	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59674.11
Sample Tag: TW-DH-RW-1-6(9-11)
Collected Date/Time: 01/14/2014 09:10
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/17/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	01/16/14 10:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	01/20/14 13:00	JAN	12674-11-2	Y
PCB-1242	8,000	ug/kg	1,000	SW8082A	01/20/14 13:00	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	01/20/14 13:00	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	01/20/14 13:00	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	01/20/14 13:00	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	1,000	SW8082A	01/20/14 13:00	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	01/20/14 13:00	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59674.12
Sample Tag: TW-DH-RW-1-6(13-15)
Collected Date/Time: 01/14/2014 09:15
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/17/14 10:00	RGS		
Inorganics								
Total Solids	79	%	1	Std M 2540 B	01/16/14 10:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 12:11	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 12:11	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 12:11	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 12:11	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 12:11	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 12:11	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 12:11	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59674.13
Sample Tag: TW-DH-RW-1-7(5-7)
Collected Date/Time: 01/14/2014 10:05
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/17/14 10:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	01/16/14 10:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 14:50	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 14:50	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 14:50	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 14:50	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 14:50	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 14:50	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 14:50	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59674.14
Sample Tag: TW-DH-RW-1-7(9-11)
Collected Date/Time: 01/14/2014 10:10
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/17/14 10:00	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	01/16/14 10:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 14:11	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 14:11	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 14:11	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 14:11	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 14:11	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 14:11	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 14:11	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59674.15
Sample Tag: TW-DH-RW-1-7(13-15)
Collected Date/Time: 01/14/2014 10:15
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/17/14 10:00	RGS		
Inorganics								
Total Solids	80	%	1	Std M 2540 B	01/16/14 10:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 12:21	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 12:21	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 12:21	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 12:21	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 12:21	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 12:21	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 12:21	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59674.16
Sample Tag: TW-43-165-1(5-7)
Collected Date/Time: 01/14/2014 11:45
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/17/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 13:50	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 13:50	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 13:50	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 13:50	JAN	11141-16-5	
PCB-1248	500	ug/kg	330	SW8082A	01/20/14 13:50	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 13:50	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 13:50	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59674.17
Sample Tag: TW-43-165-1(9-11)
Collected Date/Time: 01/14/2014 11:50
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/17/14 10:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 14:22	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 14:22	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 14:22	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 14:22	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 14:22	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 14:22	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 14:22	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59674.18
Sample Tag: DUP-1
Collected Date/Time: 01/14/2014 00:01
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/17/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 14:01	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 14:01	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 14:01	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 14:01	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 14:01	JAN	12672-29-6	
PCB-1254	400	ug/kg	330	SW8082A	01/20/14 14:01	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 14:01	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59674.19
Sample Tag: TW-43-165-1(13-15)
Collected Date/Time: 01/14/2014 11:55
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/17/14 10:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 10:25	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 10:25	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 10:25	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 10:25	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 10:25	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 10:25	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 10:25	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59674.20
Sample Tag: TW-43-165-1(13-15) MS
Collected Date/Time: 01/14/2014 11:55
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/17/14 10:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	26	ug/kg	330	SW8082A	01/20/14 10:36	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 10:36	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 10:36	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 10:36	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 10:36	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 10:36	ADB	11097-69-1	
PCB-1260	30	ug/kg	330	SW8082A	01/20/14 10:36	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59674.21
Sample Tag: TW-43-165-1(13-15) MSD
Collected Date/Time: 01/14/2014 11:55
Matrix: Soil
COC Reference: BC011514-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/17/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	24	ug/kg	330	SW8082A	01/20/14 10:48	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 10:48	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 10:48	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 10:48	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 10:48	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 10:48	ADB	11097-69-1	
PCB-1260	29	ug/kg	330	SW8082A	01/20/14 10:48	ADB	11096-82-5	

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. Page # 1 of 2 C.O.C I.D.# 6C011514-1

CHAIN OF CUSTODY RECORD

REPORT TO				INVOICE TO			
CONTACT NAME: Drew Shaw, Erin Kozak, Victoria Stacey, Micki Maki				CONTACT NAME: Christi Kiker			☑ SAME
COMPANY: ARCADIS U.S., Inc.				COMPANY			
ADDRESS: 28550 Cabot Drive Ste 500				ADDRESS			
CITY: Novi		STATE: MI	ZIP CODE: 48377	CITY		STATE	ZIP CODE
PHONE NO.: 248.994.2240	FAX NO: 248.994.2241	P.O. NO.: ARCADIS WA045		PHONE NO.	EMAIL ADDRESS: christi.kiker@arcadis-us.com		
EMAIL ADDRES: drew.shaw@arcadis-us.com; erin.kozak@arcadis-us.com; victoria.stacey@arcadis-us.com; micki.macki@arcadis-us.com		QUOTE NO.: ARCADIS WA045		ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)			

PROJECT NO./NAME: B0064410.2014.00206 /Buick City RACER Flint, MI

SAMPLER(S) - PLEASE PRINT/SIGN NAME: A. Richmond

TURNAROUND TIME REQUIRED: ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☑ OTHER 5 DAY

DELIVERABLES REQUIRED: ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Code: GW=Groundwater WW=Waste Water S=Soil L=Liquid SD=Solid SL=Sludge DW=Drinking Water O=Oil A=Air W=Waste

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

MERIT LAB NO (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB	Special Instructions
59674.01	1/13/14	1250	TW-DH-RW-1-3(5-7)	S	1	X							X	
.02	1/13/14	1255	TW-DH-RW-1-3(9-11)	S	1	X							X	
.03	1/13/14	1300	TW-DH-RW-1-3(13-15)	S	1	X							X	
.04	1/13/14	~~1355~~ 1400	~~1455~~ TW-DH-RW-1-4(5-7)	S	1	X							X	
.05	1/13/14	1500	TW-DH-RW-1-4(9-11)	S	1	X							X	
.06	1/13/14	1505	TW-DH-RW-1-4(13-15)	S	1	X							X	
.07	1/13/14	1555	TW-DH-RW-1-5(5-7)	S	1	X							X	
.08	1/13/14	1600	TW-DH-RW-1-5(9-11)	S	1	X							X	
.09	1/13/14	1605	TW-DH-RW-1-5(13-15)	S	1	X							X	
.10	1/14/14	0905	TW-DH-RW-1-6(5-7)	S	1	X							X	
.11	1/14/14	0910	TW-DH-RW-1-6(9-11)	S	1	X							X	
.12	1/14/14	0915	TW-DH-RW-1-6(13-15)	S	1	X							X	
.13	1/14/14	1005	TW-DH-RW-1-7(5-7)	S	1	X							X	

Relinquished By: Signature/Organization	☑ Sampler	Date	Time	Relinquished By: Signature/Organization	Date / Time
		1/15/14	1100		1-15-14 1330
Received By: Signature/Organization		Date	Time	Received By: Signature/Organization	Date / Time
		1-15-14	1100		1/15/14 1330
Relinquished By: Signature/Organization		Date	Time		
Received By: Signature/Organization		Date	Time		

Seal No. Seal Intact ☐ Yes ☐ No Initials

Seal No. Seal Intact ☐ Yes ☐ No Initials

Notes: Temp on arrival 4.8

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

 C.O.C I.D.# BC01514-1

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Victoria Stacey, Erin Kozak, Drew Shaw
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241
P.O. NO.: B0064410.2014.00206 WA045
EMAIL ADDRES: micki.maki@arcadis-us.com; erin.kozak@arcadis-us.com; drew.shaw@arcadis-us.com; victoria.stacey@arcadis-us.com
QUOTE NO.: ARCADIS WA045

INVOICE TO

CONTACT NAME: Christi Kiker ☑ SAME
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B0064410.2014.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Adam Richmond

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☑ OTHER 5 DAY TURNAROUND

DELIVERABLES REQUIRED ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Code: GW=Groundwater WW=Waste Water S=Soil L=Liquid SD=Solid SL=Sludge DW=Drinking Water O=Oil A=Air W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB	Special Instructions
59674.14	1/14/14	1010	TW-DH--RW-1-7(9-11)	S	1	1							X	
.15	1/14/14	1015	TW-DH-RW-1-7(13-15)	S	1	1							X	
.16	1/14/14	1145	~~TW-DH-RW~~ TW-43-165-1(5-7)	S	1	1							X	
.17	1/14/14	1150	~~TW-43-165(9-11)~~ TW-43-165-1(9-11)	S	1	1							X	
.18	1/14/14	—	DUP-1	S	1	1							X	
19,20,21	1/14/14	1155	TW-43-165-1(13-15)	S	3	3							X	MS/MSD

Relinquished By: Signature/Organization: ARCADIS ☑ Sampler Date 1/15/14 Time 1100
Recieved By: Signature/Organization: Date 1-15-14 Time 1100
Relinquished By: Signature/Organization: Date Time
Recieved By: Signature/Organization: Date Time

Relinquished By: Signature/Organization: Date 1-15-14 Time 1300
Recieved By: Signature/Organization: Kevin George Date 1/15/14 Time 1330

Seal No. Seal Intact ☐ Yes ☐ No Initals
Seal No. Seal Intact ☐ Yes ☐ No Initals

Notes: Temp. on arrival 4.0

Analytical Laboratory Report

Report ID: S59675.01(01)
Generated on 01/21/2014

Report to

Attention: Drew Shaw
Arcadis
28550 Cabot Drive
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Report Summary

Lab Sample ID(s): S59675.01-S59675.21
Project: B0064410.2014.00206 / Buick City RACER Flint, MI
Collected Date: 01/14/2014 - 01/15/2014
Submitted Date/Time: 01/15/2014 13:30
Sampled by: A. Richmond
P.O. #: B0064410.2014.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (21 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S59675.01	TW-43-165-2(5-7)	Soil	01/14/2014 13:30
S59675.02	TW-43-165-2(9-11)	Soil	01/14/2014 13:35
S59675.03	TW-43-165-2(13-15)	Soil	01/14/2014 13:40
S59675.04	TW-43-165-3(5-7)	Soil	01/14/2014 14:15
S59675.05	TW-43-165-3(9-11)	Soil	01/14/2014 14:20
S59675.06	TW-43-165-3(13-15)	Soil	01/14/2014 14:25
S59675.07	TW-43-165-4(5-7)	Soil	01/14/2014 15:00
S59675.08	TW-43-165-4(9-11)	Soil	01/14/2014 15:05
S59675.09	TW-43-165-4(13-15)	Soil	01/14/2014 15:10
S59675.10	TW-43-165-5(5-7)	Soil	01/14/2014 16:15
S59675.11	TW-43-165-5(9-11)	Soil	01/14/2014 16:20
S59675.12	TW-43-165-5(13-15)	Soil	01/14/2014 16:25
S59675.13	TW-43-165-6(5-7)	Soil	01/15/2014 09:35
S59675.14	TW-43-165-6(9-11)	Soil	01/15/2014 09:40
S59675.15	TW-43-165-6(13-15)	Soil	01/15/2014 09:45
S59675.16	TW-43-165-7(5-7)	Soil	01/15/2014 10:50
S59675.17	TW-43-165-7(9-11)	Soil	01/15/2014 10:55
S59675.18	DUP-1	Soil	01/15/2014 00:01
S59675.19	TW-43-165-7(13-15)	Soil	01/15/2014 11:00
S59675.20	TW-43-165-7(13-15) MS	Soil	01/15/2014 11:00
S59675.21	TW-43-165-7(13-15) MSD	Soil	01/15/2014 11:00

Analytical Laboratory Report

Lab Sample ID: S59675.01
Sample Tag: TW-43-165-2(5-7)
Collected Date/Time: 01/14/2014 13:30
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/21/14 13:09	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/21/14 13:09	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/21/14 13:09	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/21/14 13:09	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/21/14 13:09	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/21/14 13:09	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/21/14 13:09	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.02
Sample Tag: TW-43-165-2(9-11)
Collected Date/Time: 01/14/2014 13:35
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/21/14 12:38	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/21/14 12:38	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/21/14 12:38	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/21/14 12:38	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/21/14 12:38	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/21/14 12:38	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/21/14 12:38	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.03
Sample Tag: TW-43-165-2(13-15)
Collected Date/Time: 01/14/2014 13:40
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	80	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 18:55	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 18:55	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 18:55	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 18:55	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 18:55	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 18:55	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 18:55	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.04
Sample Tag: TW-43-165-3(5-7)
Collected Date/Time: 01/14/2014 14:15
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/21/14 12:17	JAN	12674-11-2	
PCB-1242	500	ug/kg	330	SW8082A	01/21/14 12:17	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/21/14 12:17	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/21/14 12:17	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/21/14 12:17	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/21/14 12:17	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/21/14 12:17	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.05
Sample Tag: TW-43-165-3(9-11)
Collected Date/Time: 01/14/2014 14:20
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	77	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 19:05	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 19:05	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 19:05	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 19:05	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 19:05	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 19:05	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 19:05	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.06
Sample Tag: TW-43-165-3(13-15)
Collected Date/Time: 01/14/2014 14:25
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 19:16	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 19:16	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 19:16	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 19:16	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 19:16	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 19:16	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 19:16	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.07
Sample Tag: TW-43-165-4(5-7)
Collected Date/Time: 01/14/2014 15:00
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/21/14 12:48	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/21/14 12:48	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/21/14 12:48	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/21/14 12:48	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/21/14 12:48	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/21/14 12:48	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/21/14 12:48	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.08
Sample Tag: TW-43-165-4(9-11)
Collected Date/Time: 01/14/2014 15:05
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/21/14 12:59	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/21/14 12:59	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/21/14 12:59	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/21/14 12:59	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/21/14 12:59	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/21/14 12:59	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/21/14 12:59	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.09
Sample Tag: TW-43-165-4(13-15)
Collected Date/Time: 01/14/2014 15:10
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 19:26	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 19:26	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 19:26	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 19:26	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 19:26	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 19:26	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 19:26	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.10
Sample Tag: TW-43-165-5(5-7)
Collected Date/Time: 01/14/2014 16:15
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/21/14 12:27	JAN	12674-11-2	
PCB-1242	500	ug/kg	330	SW8082A	01/21/14 12:27	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/21/14 12:27	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/21/14 12:27	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/21/14 12:27	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/21/14 12:27	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/21/14 12:27	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.11
Sample Tag: TW-43-165-5(9-11)
Collected Date/Time: 01/14/2014 16:20
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 19:37	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 19:37	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 19:37	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 19:37	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 19:37	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 19:37	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 19:37	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.12
Sample Tag: TW-43-165-5(13-15)
Collected Date/Time: 01/14/2014 16:25
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	89	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 19:47	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 19:47	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 19:47	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 19:47	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 19:47	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 19:47	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 19:47	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.13
Sample Tag: TW-43-165-6(5-7)
Collected Date/Time: 01/15/2014 09:35
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 19:58	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 19:58	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 19:58	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 19:58	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 19:58	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 19:58	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 19:58	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.14
Sample Tag: TW-43-165-6(9-11)
Collected Date/Time: 01/15/2014 09:40
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 20:08	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 20:08	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 20:08	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 20:08	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 20:08	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 20:08	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 20:08	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.15
Sample Tag: TW-43-165-6(13-15)
Collected Date/Time: 01/15/2014 09:45
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	88	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 20:19	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 20:19	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 20:19	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 20:19	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 20:19	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 20:19	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 20:19	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.16
Sample Tag: TW-43-165-7(5-7)
Collected Date/Time: 01/15/2014 10:50
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/21/14 13:20	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/21/14 13:20	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/21/14 13:20	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/21/14 13:20	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/21/14 13:20	JAN	12672-29-6	
PCB-1254	1,600	ug/kg	330	SW8082A	01/21/14 13:20	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/21/14 13:20	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.17
Sample Tag: TW-43-165-7(9-11)
Collected Date/Time: 01/15/2014 10:55
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 20:29	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 20:29	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 20:29	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 20:29	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 20:29	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 20:29	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 20:29	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.18
Sample Tag: DUP-1
Collected Date/Time: 01/15/2014 00:01
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/21/14 13:48	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/21/14 13:48	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/21/14 13:48	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/21/14 13:48	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/21/14 13:48	JAN	12672-29-6	
PCB-1254	600	ug/kg	330	SW8082A	01/21/14 13:48	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/21/14 13:48	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.19
Sample Tag: TW-43-165-7(13-15)
Collected Date/Time: 01/15/2014 11:00
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/20/14 16:21	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 16:21	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 16:21	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 16:21	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 16:21	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 16:21	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/20/14 16:21	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.20
Sample Tag: TW-43-165-7(13-15) MS
Collected Date/Time: 01/15/2014 11:00
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	29	ug/kg	330	SW8082A	01/20/14 16:38	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 16:38	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 16:38	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 16:38	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 16:38	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 16:38	ADB	11097-69-1	
PCB-1260	32	ug/kg	330	SW8082A	01/20/14 16:38	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59675.21
Sample Tag: TW-43-165-7(13-15) MSD
Collected Date/Time: 01/15/2014 11:00
Matrix: Soil
COC Reference: BC011514-2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/20/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	01/16/14 18:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	25	ug/kg	330	SW8082A	01/20/14 16:53	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/20/14 16:53	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/20/14 16:53	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/20/14 16:53	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/20/14 16:53	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/20/14 16:53	ADB	11097-69-1	
PCB-1260	28	ug/kg	330	SW8082A	01/20/14 16:53	ADB	11096-82-5	

Merit Laboratories
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C.O.C. Page # 1 of 2 C.O.C I.D.# BC01517-2

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Victoria Stacey, Erin Kozak, Drew Shaw
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241
P.O. NO.: B0064410.2014.00206 WA045
EMAIL ADDRES: micki.maki@arcadis-us.com; erin.kozak@arcadis-us.com; drew.shaw@arcadis-us.com; victoria.stacey@arcadis-us.com
QUOTE NO.: ARCADIS WA045

INVOICE TO

CONTACT NAME: Christi Kiker
☑ SAME
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B0064410.2014.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Adam Richmond

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☑ OTHER 5 DAY TURNAROUND

DELIVERABLES REQUIRED ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Code: GW=Groundwater WW=Waste Water S=Soil L=Liquid SD=Solid SL=Sludge DW=Drinking Water O=Oil A=Air W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB
59675.01	1/14/14	1330	TW-43-165-2 (5-7)	S	1	1							X
.02	1/14/14	1335	TW-43-165-2 (9-11)	S	1	1							X
.03	1/14/14	1340	TW-43-165-2 (13-15)	S	1	1							X
.04	1/14/14	1415	TW-43-165-3 (5-7)	S	1	1							X
.05	1/14/14	1420	TW-43-165-3 (9-11)	S	1	1							X
.06	1/14/14	1425	TW-43-165-3 (13-15)	S	1	1							X
.07	1/14/14	1500	TW-43-165-4 (5-7)	S	1	1							X
.08	1/14/14	1505	TW-43-165-4 (9-11)	S	1	1							X
.09	1/14/14	1510	TW-43-165-4 (13-15)	S	1	1							X
.10	1/14/14	1615	TW-43-165-5 (5-7)	S	1	1							X
.11	1/14/14	1620	TW-43-165-5 (9-11)	S	1	1							X
.12	1/14/14	1625	TW-43-165-5 (13-15)	S	1	1							X
.13	1/15/14	0935	TW-43-165-6 (5-7)	S	1	1							X

Relinquished By: Signature/Organization — ☑ Sampler — Date 1/15/14 Time 1100
Recieved By: Signature/Organization — Date 1-15-14 Time 1155
Relinquished By: Signature/Organization — Date Time
Recieved By: Signature/Organization — Date Time

Relinquished By: Signature/Organization — Date 1-15-14 Time 1350
Recieved By: Signature/Organization — Kevin George — Date 1/15/14 Time 1330

Seal No. — Seal Intact ☐ Yes ☐ No — Initals
Seal No. — Seal Intact ☐ Yes ☐ No — Initals

Notes: Temp. on arrival 4.8

Merit Laboratories, Inc.

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C.O.C. Page # 2 of 2 C.O.C I.D.# BC011514-2

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Victoria Stacey, Erin Kozak, Drew Shaw
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241
P.O. NO.: B0064410.2014.00206 WA045
EMAIL ADDRES: micki.maki@arcadis-us.com; erin.kozak@arcadis-us.com; drew.shaw@arcadis-us.com; victoria.stacey@arcadis-us.com
QUOTE NO.: ARCADIS WA045

INVOICE TO

CONTACT NAME: Christi Kiker ☑ SAME
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B0064410.2014.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Adam Richmond

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☑ OTHER 5 DAY TURNAROUND

DELIVERABLES REQUIRED ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Code: GW=Groundwater WW=Waste Water S=Soil L=Liquid SD=Solid SL=Sludge DW=Drinking Water O=Oil A=Air W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB	Special Instructions
59675.14	1/15/14	0940	TW-43-165-6(9-11)	S	1	1							X	
.15	1/15/14	0945	TW-43-165-6(13-15)	S	1	1							X	
.16	1/15/14	1050	TW-43-165-7(5-7)	S	1	1							X	
.17	1/15/14	1055	TW-43-165-7(9-11)	S	1	1							X	
.18	1/15/14	—	DUP-1	S	1	1							X	
.19,.20,.21	1/15/14	1100	TW-43-165-7(13-15)	S	3	3							X	MS/MSD

Relinquished By: Signature/Organization: ARCADIS ☑ Sampler Date: 1/15/14 Time: 1100
Recieved By: Signature/Organization: Date: 1-15-14 Time: 1100

Relinquished By: Signature/Organization: Date: 1-15-14 Time: 1330
Recieved By: Signature/Organization: Karen George Date: 1/15/14 Time: 1330

Relinquished By: Signature/Organization: Date: Time:
Recieved By: Signature/Organization: Date: Time:

Seal No. Seal Intact ☐ Yes ☐ No Initals
Seal No. Seal Intact ☐ Yes ☐ No Initals

Notes: Temp. on arrival 4°

Analytical Laboratory Report

Report ID: S59719.01(01)
Generated on 01/24/2014

Report to

Attention: Drew Shaw
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 248-994-2314 FAX: 248-994-2241
Email: Drew.Shaw@arcadis-us.com

Addtional Contacts: Erin Kozak, Victoria Stacey, Micki Maki

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S59719.01-S59719.22
Project: B0064410.2014.00206 / Buick City RACER Flint, MI
Collected Date: 01/16/2014
Submitted Date/Time: 01/17/2014 14:00
Sampled by: Adam Richmond
P.O. #: B0064410.2014.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (22 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S59719.01	TW-05-05-2(9-11)	Soil	01/16/2014 09:55
S59719.02	TW-05-05-2(11-13)	Soil	01/16/2014 10:00
S59719.03	TW-05-05-2(13-15)	Soil	01/16/2014 10:05
S59719.04	TW-05-05-2(15-17)	Soil	01/16/2014 10:25
S59719.05	TW-05-05-2(18-20)	Soil	01/16/2014 10:20
S59719.06	TW-05-05-1(9-11)	Soil	01/16/2014 11:35
S59719.07	TW-05-05-1(11-13)	Soil	01/16/2014 11:40
S59719.08	TW-05-05-1(13-15)	Soil	01/16/2014 11:45
S59719.09	TW-05-05-1(15-17)	Soil	01/16/2014 11:50
S59719.10	TW-05-05-1(18-20)	Soil	01/16/2014 11:55
S59719.11	SB-DH-RW-3-8(5-7)	Soil	01/16/2014 13:55
S59719.12	SB-DH-RW-3-8(9-11)	Soil	01/16/2014 14:00
S59719.13	SB-DH-RW-3-8(11-13)	Soil	01/16/2014 14:05
S59719.14	SB-DH-RW-3-9(5-7)	Soil	01/16/2014 14:30
S59719.15	SB-DH-RW-3-9(9-11)	Soil	01/16/2014 14:35
S59719.16	SB-DH-RW-3-9(13-15)	Soil	01/16/2014 14:40
S59719.17	SB-DH-RW-3-10(5-7)	Soil	01/16/2014 15:20
S59719.18	SB-DH-RW-3-10(9-10)	Soil	01/16/2014 15:25
S59719.19	DUP-1	Soil	01/16/2014 00:01
S59719.20	SB-DH-RW-3-10(13-15)	Soil	01/16/2014 15:30
S59719.21	SB-DH-RW-3-10(13-15) MS	Soil	01/16/2014 15:30
S59719.22	SB-DH-RW-3-10(13-15) MSD	Soil	01/16/2014 15:30

Analytical Laboratory Report

Lab Sample ID: S59719.01
Sample Tag: TW-05-05-2(9-11)
Collected Date/Time: 01/16/2014 09:55
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	95	%	1	Std M 2540 B	01/20/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/22/14 12:34	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/22/14 12:34	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/22/14 12:34	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/22/14 12:34	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/22/14 12:34	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/22/14 12:34	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/22/14 12:34	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59719.02
Sample Tag: TW-05-05-2(11-13)
Collected Date/Time: 01/16/2014 10:00
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	01/20/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	2,000	SW8082A	01/22/14 14:25	JAN	12674-11-2	Y
PCB-1242	12,000	ug/kg	2,000	SW8082A	01/22/14 14:25	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	2,000	SW8082A	01/22/14 14:25	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	2,000	SW8082A	01/22/14 14:25	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	2,000	SW8082A	01/22/14 14:25	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	2,000	SW8082A	01/22/14 14:25	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	2,000	SW8082A	01/22/14 14:25	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59719.03
Sample Tag: TW-05-05-2(13-15)
Collected Date/Time: 01/16/2014 10:05
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	01/20/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	01/22/14 14:56	JAN	12674-11-2	Y
PCB-1242	4,700	ug/kg	600	SW8082A	01/22/14 14:56	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	01/22/14 14:56	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	01/22/14 14:56	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	01/22/14 14:56	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	600	SW8082A	01/22/14 14:56	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	01/22/14 14:56	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59719.04
Sample Tag: TW-05-05-2(15-17)
Collected Date/Time: 01/16/2014 10:25
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	01/20/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	01/22/14 15:08	JAN	12674-11-2	Y
PCB-1242	3,400	ug/kg	600	SW8082A	01/22/14 15:08	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	01/22/14 15:08	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	01/22/14 15:08	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	01/22/14 15:08	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	600	SW8082A	01/22/14 15:08	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	01/22/14 15:08	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59719.05
Sample Tag: TW-05-05-2(18-20)
Collected Date/Time: 01/16/2014 10:20
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	92	%	1	Std M 2540 B	01/20/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/21/14 19:04	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/21/14 19:04	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/21/14 19:04	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/21/14 19:04	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/21/14 19:04	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/21/14 19:04	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/21/14 19:04	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59719.06
Sample Tag: TW-05-05-1(9-11)
Collected Date/Time: 01/16/2014 11:35
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	92	%	1	Std M 2540 B	01/20/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/23/14 15:07	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/23/14 15:07	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/23/14 15:07	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/23/14 15:07	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/23/14 15:07	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/23/14 15:07	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/23/14 15:07	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59719.07
Sample Tag: TW-05-05-1(11-13)
Collected Date/Time: 01/16/2014 11:40
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	01/20/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	01/23/14 15:51	JAN	12674-11-2	X
PCB-1242	Not detected	ug/kg	1,000	SW8082A	01/23/14 15:51	JAN	53469-21-9	X
PCB-1221	Not detected	ug/kg	1,000	SW8082A	01/23/14 15:51	JAN	11104-28-2	X
PCB-1232	Not detected	ug/kg	1,000	SW8082A	01/23/14 15:51	JAN	11141-16-5	X
PCB-1248	Not detected	ug/kg	1,000	SW8082A	01/23/14 15:51	JAN	12672-29-6	X
PCB-1254	Not detected	ug/kg	1,000	SW8082A	01/23/14 15:51	JAN	11097-69-1	X
PCB-1260	Not detected	ug/kg	1,000	SW8082A	01/23/14 15:51	JAN	11096-82-5	X

X-Elevated reporting limit due to matrix interference

Analytical Laboratory Report

Lab Sample ID: S59719.08
Sample Tag: TW-05-05-1(13-15)
Collected Date/Time: 01/16/2014 11:45
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	01/20/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	2,000	SW8082A	01/22/14 15:33	JAN	12674-11-2	Y
PCB-1242	10,000	ug/kg	2,000	SW8082A	01/22/14 15:33	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	2,000	SW8082A	01/22/14 15:33	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	2,000	SW8082A	01/22/14 15:33	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	2,000	SW8082A	01/22/14 15:33	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	2,000	SW8082A	01/22/14 15:33	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	2,000	SW8082A	01/22/14 15:33	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59719.09
Sample Tag: TW-05-05-1(15-17)
Collected Date/Time: 01/16/2014 11:50
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	01/20/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/21/14 19:14	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/21/14 19:14	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/21/14 19:14	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/21/14 19:14	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/21/14 19:14	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/21/14 19:14	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/21/14 19:14	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59719.10
Sample Tag: TW-05-05-1(18-20)
Collected Date/Time: 01/16/2014 11:55
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	92	%	1	Std M 2540 B	01/20/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/22/14 12:47	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/22/14 12:47	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/22/14 12:47	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/22/14 12:47	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/22/14 12:47	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/22/14 12:47	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/22/14 12:47	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59719.11
Sample Tag: SB-DH-RW-3-8(5-7)
Collected Date/Time: 01/16/2014 13:55
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	01/20/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/22/14 12:57	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/22/14 12:57	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/22/14 12:57	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/22/14 12:57	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/22/14 12:57	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/22/14 12:57	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/22/14 12:57	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59719.12
Sample Tag: SB-DH-RW-3-8(9-11)
Collected Date/Time: 01/16/2014 14:00
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	01/20/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	01/22/14 15:59	JAN	12674-11-2	Y
PCB-1242	7,000	ug/kg	1,000	SW8082A	01/22/14 15:59	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	01/22/14 15:59	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	01/22/14 15:59	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	01/22/14 15:59	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	1,000	SW8082A	01/22/14 15:59	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	01/22/14 15:59	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59719.13
Sample Tag: SB-DH-RW-3-8(11-13)
Collected Date/Time: 01/16/2014 14:05
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	01/20/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	01/22/14 12:06	JAN	12674-11-2	Y
PCB-1242	4,200	ug/kg	600	SW8082A	01/22/14 12:06	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	01/22/14 12:06	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	01/22/14 12:06	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	01/22/14 12:06	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	600	SW8082A	01/22/14 12:06	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	01/22/14 12:06	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59719.14
Sample Tag: SB-DH-RW-3-9(5-7)
Collected Date/Time: 01/16/2014 14:30
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	88	%	1	Std M 2540 B	01/20/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/22/14 13:12	JAN	12674-11-2	
PCB-1242	600	ug/kg	330	SW8082A	01/22/14 13:12	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/22/14 13:12	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/22/14 13:12	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/22/14 13:12	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/22/14 13:12	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/22/14 13:12	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59719.15
Sample Tag: SB-DH-RW-3-9(9-11)
Collected Date/Time: 01/16/2014 14:35
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	01/20/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/22/14 13:29	JAN	12674-11-2	
PCB-1242	2,300	ug/kg	330	SW8082A	01/22/14 13:29	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/22/14 13:29	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/22/14 13:29	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/22/14 13:29	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/22/14 13:29	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/22/14 13:29	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59719.16
Sample Tag: SB-DH-RW-3-9(13-15)
Collected Date/Time: 01/16/2014 14:40
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	78	%	1	Std M 2540 B	01/20/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/21/14 19:35	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/21/14 19:35	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/21/14 19:35	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/21/14 19:35	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/21/14 19:35	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/21/14 19:35	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/21/14 19:35	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59719.17
Sample Tag: SB-DH-RW-3-10(5-7)
Collected Date/Time: 01/16/2014 15:20
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	01/20/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/22/14 13:41	JAN	12674-11-2	
PCB-1242	1,000	ug/kg	330	SW8082A	01/22/14 13:41	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/22/14 13:41	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/22/14 13:41	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/22/14 13:41	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/22/14 13:41	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/22/14 13:41	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59719.18
Sample Tag: SB-DH-RW-3-10(9-10)
Collected Date/Time: 01/16/2014 15:25
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	01/22/14 16:20	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	01/23/14 11:35	JAN	12674-11-2	Y
PCB-1242	3,500	ug/kg	600	SW8082A	01/23/14 11:35	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	01/23/14 11:35	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	01/23/14 11:35	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	01/23/14 11:35	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	600	SW8082A	01/23/14 11:35	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	01/23/14 11:35	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59719.19
Sample Tag: DUP-1
Collected Date/Time: 01/16/2014 00:01
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/21/14 09:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	01/22/14 16:20	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	01/23/14 11:46	JAN	12674-11-2	Y
PCB-1242	2,300	ug/kg	600	SW8082A	01/23/14 11:46	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	01/23/14 11:46	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	01/23/14 11:46	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	01/23/14 11:46	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	600	SW8082A	01/23/14 11:46	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	01/23/14 11:46	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59719.20
Sample Tag: SB-DH-RW-3-10(13-15)
Collected Date/Time: 01/16/2014 15:30
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/24/14 12:00	RGS		
Inorganics								
Total Solids	78	%	1	Std M 2540 B	01/22/14 16:20	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/24/14 14:25	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/24/14 14:25	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/24/14 14:25	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/24/14 14:25	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/24/14 14:25	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/24/14 14:25	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/24/14 14:25	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59719.21
Sample Tag: SB-DH-RW-3-10(13-15) MS
Collected Date/Time: 01/16/2014 15:30
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/24/14 12:00	RGS		
Inorganics								
Total Solids	79	%	1	Std M 2540 B	01/22/14 16:20	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/24/14 14:40	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	01/24/14 14:40	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/24/14 14:40	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/24/14 14:40	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/24/14 14:40	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/24/14 14:40	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/24/14 14:40	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59719.22
Sample Tag: SB-DH-RW-3-10(13-15) MSD
Collected Date/Time: 01/16/2014 15:30
Matrix: Soil
COC Reference: BC011714-1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/24/14 12:00	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	01/22/14 16:20	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/24/14 14:54	JAN	12674-11-2	
PCB-1242	600	ug/kg	330	SW8082A	01/24/14 14:54	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	01/24/14 14:54	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	01/24/14 14:54	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	01/24/14 14:54	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	01/24/14 14:54	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	01/24/14 14:54	JAN	11096-82-5	

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www.meritlabs.com

 C.O.C I.D.# BC01714-1

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Victoria Stacey, Erin Kozak, Drew Shaw
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241
P.O. NO.: B0064410.2014.00206 WA045
EMAIL ADDRES: micki.maki@arcadis-us.com; erin.kozak@arcadis-us.com; drew.shaw@arcadis-us.com; victoria.stacey@arcadis-us.com
QUOTE NO.: ARCADIS WA045

INVOICE TO

CONTACT NAME: Christi Kiker ☑ SAME
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B0064410.2014.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Adam Richmond

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☑ OTHER 5 DAY TURNAROUND

DELIVERABLES REQUIRED ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Code: GW=Groundwater WW=Waste Water S=Soil L=Liquid SD=Solid SL=Sludge DW=Drinking Water O=Oil A=Air W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☑ Other
Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB
59719.01	1/16/14	0955	TW-05-05-2 (9-11)	S	1								X
.02	1/16/14	1000	TW-05-05-2 (11-13)	S	1								X
.03	1/16/14	1005	TW-05-05-2 (13-15)	S	1								X
.04	1/16/14	1025	TW-05-05-2 (15-17)	S	1								X
.05	1/16/14	1020	TW-05-05-2 (18-20)	S	1								X
.06	1/16/14	1135	TW-05-05-1 (9-11)	S	1								X
.07	1/16/14	1140	TW-05-05-1 (11-13)	S	1								X
.08	1/16/14	1145	TW-05-05-1 (13-15)	S	1								X
.09	1/16/14	1150	TW-05-05-1 (15-17)	S	1								X
.10	1/16/14	1155	TW-05-05-1 (19-20)	S	1								X
.11	1/16/14	1355	SB-DH-RW-3-8 (5-7)	S	1								X
.12	1/16/14	1400	SB-DH-RW-3-8 (9-11)	S	1								X
.13	1/16/14	1405	SB-DH-RW-3-8 (11-13)	S	1								X

Relinquished By: Signature/Organization: [signature] ARCADIS ☑ Sampler Date: 1/17/14 Time: 1130
Recieved By: Signature/Organization: [signature] Date: 1-17-14 Time: 1245
Relinquished By: Signature/Organization: Date: Time:
Recieved By: Signature/Organization: Date: Time:

Relinquished By: Signature/Organization: [signature] Date: 1-17-14 Time: 1400
Recieved By: Signature/Organization: Kevin George Date: 1/17/14 Time: 1400
Seal No. | Seal Intact ☐ Yes ☐ No | Initals
Seal No. | Seal Intact ☐ Yes ☐ No | Initals
Notes: Temp. on arrival 5°

Merit Laboratories, Inc.

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C.O.C. Page # 2 of 2 C.O.C I.D.# BC01714-1

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Victoria Stacey, Erin Kozak, Drew Shaw
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241
P.O. NO.: B0064410.2014.00206 WA045
EMAIL ADDRES: micki.maki@arcadis-us.com; erin.kozak@arcadis-us.com; drew.shaw@arcadis-us.com; victoria.stacey@arcadis-us.com
QUOTE NO.: ARCADIS WA045

INVOICE TO

CONTACT NAME: Christi Kiker ☑ SAME
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B0064410.2014.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Adam Richmond

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☑ OTHER 5 DAY TURNAROUND

DELIVERABLES REQUIRED ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Code: GW=Groundwater WW=Waste Water S=Soil L=Liquid SD=Solid SL=Sludge DW=Drinking Water O=Oil A=Air W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB	Special Instructions
597/9.14	1/16/14	1430	SB-DH-RW-3-9(5-7)	S	1	1							✓	
.15	1/16/14	1435	SB-DH-RW-3-9(9-11)	S	1	1							✓	
.16	1/16/14	1440	SB-DH-RW-3-9(13-15)	S	1	1							✓	
.17	1/16/14	1520	SB-DH-RW-3-10(5-7)	S	1	1							✓	
.18	1/16/14	1525	SB-DH-RW-3-10(9-10)	S	1	1							✓	
.19	1/16/14	—	DUP-1	S	1	1							✓	
.20,.21,.22	1/16/14	1530	SB-DH-RW-3-10(13-15)	S	3	3							✓	MS/MSD

Relinquished By: Signature/Organization: ARCADIS ☑ Sampler Date: 1/17/14 Time: 1130
Recieved By: Signature/Organization: Date: 1-17-14 Time: 1240
Relinquished By: Signature/Organization: Date: 1-17-14 Time: 1400
Recieved By: Signature/Organization: Theresa George Date: 1/17/14 Time: 1400
Relinquished By: Signature/Organization: Date: Time:
Recieved By: Signature/Organization: Date: Time:

Seal No. Seal Intact ☐ Yes ☐ No Initals
Seal No. Seal Intact ☐ Yes ☐ No Initals

Notes: Temp. on arrival 2.0

Analytical Laboratory Report

Report ID: S59863.01(01)
Generated on 02/06/2014

Report to

Attention: Drew Shaw
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 248-994-2314 FAX: 248-994-2241
Email: Drew.Shaw@arcadis-us.com

Addtional Contacts: Erin Kozak, Victoria Stacey, Micki Maki

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S59863.01-S59863.18
Project: B0064410.2014.00206 / Buick City RACER Flint, MI
Collected Date: 01/29/2014 - 01/31/2014
Submitted Date/Time: 01/31/2014 13:15
Sampled by: Adam Richmond
P.O. #: B0064410.2014.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (18 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S59863.01	TW-10-08-2(1-3)	Soil	01/29/2014 14:35
S59863.02	TW-10-08-2(6-8)	Soil	01/29/2014 14:40
S59863.03	MW-10-12(4-6)	Soil	01/29/2014 15:45
S59863.04	MW-10-12(8-10)	Soil	01/29/2014 15:50
S59863.05	MW-10-13(1-3)	Soil	01/30/2014 14:20
S59863.06	MW-10-13(8-10)	Soil	01/30/2014 14:25
S59863.07	MW-10-14(4-6)	Soil	01/30/2014 16:15
S59863.08	MW-10-14(9-11)	Soil	01/30/2014 16:20
S59863.09	MW-10-15(1-3)	Soil	01/31/2014 09:35
S59863.10	MW-10-15(11-13)	Soil	01/31/2014 09:45
S59863.11	MW-05-10(2-4)	Soil	01/31/2014 10:50
S59863.12	MW-05-10(6-8)	Soil	01/31/2014 10:55
S59863.13	MW-05-10(6-8) MS	Soil	01/31/2014 10:55
S59863.14	MW-05-10(6-8) MSD	Soil	01/31/2014 10:55
S59863.15	DUP-2	Soil	01/31/2014 00:01
S59863.16	MW-10-15(5.5-6)	Soil	01/31/2014 09:50
S59863.17	MW-05-13(1-3)	Soil	01/31/2014 11:50
S59863.18	MW-05-13(8-10)	Soil	01/31/2014 11:55

Analytical Laboratory Report

Lab Sample ID: S59863.01
Sample Tag: TW-10-08-2(1-3)
Collected Date/Time: 01/29/2014 14:35
Matrix: Soil
COC Reference: BC013114.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/03/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	02/03/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/04/14 11:19	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/04/14 11:19	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/04/14 11:19	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/04/14 11:19	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/04/14 11:19	ADB	12672-29-6	
PCB-1254	1,700	ug/kg	330	SW8082A	02/04/14 11:19	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/04/14 11:19	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59863.02
Sample Tag: TW-10-08-2(6-8)
Collected Date/Time: 01/29/2014 14:40
Matrix: Soil
COC Reference: BC013114.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/03/14 10:00	RGS		
Inorganics								
Total Solids	79	%	1	Std M 2540 B	02/03/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/04/14 15:21	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/04/14 15:21	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/04/14 15:21	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/04/14 15:21	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/04/14 15:21	JAN	12672-29-6	
PCB-1254	400	ug/kg	330	SW8082A	02/04/14 15:21	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/04/14 15:21	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59863.03
Sample Tag: MW-10-12(4-6)
Collected Date/Time: 01/29/2014 15:45
Matrix: Soil
COC Reference: BC013114.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/03/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	02/03/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/04/14 11:33	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/04/14 11:33	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/04/14 11:33	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/04/14 11:33	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/04/14 11:33	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/04/14 11:33	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/04/14 11:33	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59863.04
Sample Tag: MW-10-12(8-10)
Collected Date/Time: 01/29/2014 15:50
Matrix: Soil
COC Reference: BC013114.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/03/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	02/03/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/04/14 15:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/04/14 15:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/04/14 15:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/04/14 15:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/04/14 15:36	JAN	12672-29-6	
PCB-1254	500	ug/kg	330	SW8082A	02/04/14 15:36	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/04/14 15:36	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59863.05
Sample Tag: MW-10-13(1-3)
Collected Date/Time: 01/30/2014 14:20
Matrix: Soil
COC Reference: BC013114.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/03/14 10:00	RGS		
Inorganics								
Total Solids	93	%	1	Std M 2540 B	02/03/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/04/14 11:54	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/04/14 11:54	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/04/14 11:54	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/04/14 11:54	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/04/14 11:54	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/04/14 11:54	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/04/14 11:54	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59863.06
Sample Tag: MW-10-13(8-10)
Collected Date/Time: 01/30/2014 14:25
Matrix: Soil
COC Reference: BC013114.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/03/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	02/03/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/04/14 12:04	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/04/14 12:04	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/04/14 12:04	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/04/14 12:04	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/04/14 12:04	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/04/14 12:04	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/04/14 12:04	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59863.07
Sample Tag: MW-10-14(4-6)
Collected Date/Time: 01/30/2014 16:15
Matrix: Soil
COC Reference: BC013114.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/03/14 10:00	RGS		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	02/03/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/04/14 12:15	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/04/14 12:15	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/04/14 12:15	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/04/14 12:15	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/04/14 12:15	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/04/14 12:15	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/04/14 12:15	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59863.08
Sample Tag: MW-10-14(9-11)
Collected Date/Time: 01/30/2014 16:20
Matrix: Soil
COC Reference: BC013114.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/03/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	02/03/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/04/14 12:25	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/04/14 12:25	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/04/14 12:25	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/04/14 12:25	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/04/14 12:25	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/04/14 12:25	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/04/14 12:25	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59863.09
Sample Tag: MW-10-15(1-3)
Collected Date/Time: 01/31/2014 09:35
Matrix: Soil
COC Reference: BC013114.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/03/14 10:00	RGS		
Inorganics								
Total Solids	95	%	1	Std M 2540 B	02/03/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/04/14 12:36	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/04/14 12:36	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/04/14 12:36	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/04/14 12:36	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/04/14 12:36	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/04/14 12:36	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/04/14 12:36	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59863.10
Sample Tag: MW-10-15(11-13)
Collected Date/Time: 01/31/2014 09:45
Matrix: Soil
COC Reference: BC013114.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/03/14 10:00	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	02/03/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/04/14 11:43	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/04/14 11:43	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/04/14 11:43	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/04/14 11:43	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/04/14 11:43	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/04/14 11:43	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/04/14 11:43	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59863.11
Sample Tag: MW-05-10(2-4)
Collected Date/Time: 01/31/2014 10:50
Matrix: Soil
COC Reference: BC013114.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/03/14 10:00	RGS		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	02/03/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/04/14 12:46	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/04/14 12:46	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/04/14 12:46	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/04/14 12:46	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/04/14 12:46	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/04/14 12:46	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/04/14 12:46	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59863.12
Sample Tag: MW-05-10(6-8)
Collected Date/Time: 01/31/2014 10:55
Matrix: Soil
COC Reference: BC013114.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/03/14 10:00	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	02/03/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/04/14 10:03	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/04/14 10:03	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/04/14 10:03	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/04/14 10:03	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/04/14 10:03	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/04/14 10:03	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/04/14 10:03	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59863.13
Sample Tag: MW-05-10(6-8) MS
Collected Date/Time: 01/31/2014 10:55
Matrix: Soil
COC Reference: BC013114.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/03/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	02/03/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	30	ug/kg	330	SW8082A	02/04/14 10:13	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/04/14 10:13	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/04/14 10:13	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/04/14 10:13	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/04/14 10:13	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/04/14 10:13	JAN	11097-69-1	
PCB-1260	30	ug/kg	330	SW8082A	02/04/14 10:13	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59863.14
Sample Tag: MW-05-10(6-8) MSD
Collected Date/Time: 01/31/2014 10:55
Matrix: Soil
COC Reference: BC013114.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/03/14 10:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	02/03/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	30	ug/kg	330	SW8082A	02/04/14 10:39	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/04/14 10:39	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/04/14 10:39	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/04/14 10:39	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/04/14 10:39	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/04/14 10:39	JAN	11097-69-1	
PCB-1260	40	ug/kg	330	SW8082A	02/04/14 10:39	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59863.15
Sample Tag: DUP-2
Collected Date/Time: 01/31/2014 00:01
Matrix: Soil
COC Reference: BC013114.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/03/14 10:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	02/03/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/04/14 12:57	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/04/14 12:57	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/04/14 12:57	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/04/14 12:57	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/04/14 12:57	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/04/14 12:57	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/04/14 12:57	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59863.16
Sample Tag: MW-10-15(5.5-6)
Collected Date/Time: 01/31/2014 09:50
Matrix: Soil
COC Reference: BC013114.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/03/14 10:00	RGS		
Inorganics								
Total Solids	61	%	1	Std M 2540 B	02/03/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/04/14 10:43	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/04/14 10:43	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/04/14 10:43	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/04/14 10:43	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/04/14 10:43	ADB	12672-29-6	
PCB-1254	720	ug/kg	330	SW8082A	02/04/14 10:43	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/04/14 10:43	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59863.17
Sample Tag: MW-05-13(1-3)
Collected Date/Time: 01/31/2014 11:50
Matrix: Soil
COC Reference: BC013114.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/03/14 10:00	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	02/03/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/04/14 13:07	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/04/14 13:07	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/04/14 13:07	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/04/14 13:07	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/04/14 13:07	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/04/14 13:07	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/04/14 13:07	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59863.18
Sample Tag: MW-05-13(8-10)
Collected Date/Time: 01/31/2014 11:55
Matrix: Soil
COC Reference: BC013114.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/05/14 09:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	02/03/14 17:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/05/14 16:18	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/05/14 16:18	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/05/14 16:18	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/05/14 16:18	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/05/14 16:18	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/05/14 16:18	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/05/14 16:18	ADB	11096-82-5	

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C.O.C. Page # 1 of 2 C.O.C I.D.# BC013114.2

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Victoria Stacey, Erin Kozak, Drew Shaw
COMPANY: ARCADIS U.S., Inc.
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QUOTE NO.: ARCADIS WA045

INVOICE TO

CONTACT NAME: Christi Kiker ☑ SAME
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B0064410.2014.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Adam Richmond

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☑ OTHER 5 DAY TURNAROUND

DELIVERABLES REQUIRED ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Code: GW=Groundwater WW=Waste Water S=Soil L=Liquid SD=Solid SL=Sludge DW=Drinking Water O=Oil A=Air W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB
598630.01	1/29/14	1435	TW-10-08-2 (1-3)	S	1	1							X
.02	1/29/14	1440	TW-10-08-2 (6-8)	S	1	1							X
.03	1/29/14	1545	MW-10-12 (4-6)	S	1	1							X
.04	1/29/14	1550	MW-10-12 (6-8)	S	1	1							X
.05	1/30/14	1420	MW-10-13 (1-3)	S	1	1							X
.06	1/30/14	1425	MW-10-13 (8-10)	S	1	1							X
.07	1/30/14	1615	MW-10-14 (4-6)	S	1	1							X
.08	1/30/14	1620	MW-10-14 (9-11)	S	1	1							X
.09	1/31/14	0935	MW-10-15 (1-3)	S	1	1							X
~~.20~~	~~1/31/14~~	~~0940~~	~~MW-10-15 (8-10)~~	S	1	1							X
.10	1/31/14	0945	MW-10-15 (11-13)	S	1	1							X
.11	1/31/14	1050	MW-05-10 (2-4)	S	1	1							X
14.13.12	1/31/14	1055	MW-05-10 (6-8)	S	3	3							X

Relinquished By: Signature/Organization: [signature] / ARCADIS ☑ Sampler Date: 1/31/14 Time: 1210
Recieved By: Signature/Organization: [signature] Date: 1-31-14 Time: 1210
Relinquished By: Signature/Organization: [signature] Date: 1-31-14 Time: 1315
Recieved By: Signature/Organization: Thomas Gleace Date: 1/31/14 Time: 1315
Relinquished By: Signature/Organization: Date: Time:
Recieved By: Signature/Organization: Date: Time:

Seal No. Seal Intact ☐ Yes ☐ No Initals
Seal No. Seal Intact ☐ Yes ☐ No Initals

Notes: Temp. on arrival 4°C

Merit Laboratories

2680 East Lansing Dr., East Lansing, MI 48823
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www.meritlabs.com

C.O.C. Page # 2 of 2 C.O.C I.D.# BCC13114.2

CHAIN OF CUSTODY RECORD

REPORT TO			INVOICE TO	
CONTACT NAME: Micki Maki, Victoria Stacey, Erin Kozak, Drew Shaw			CONTACT NAME: Christi Kiker	☑ SAME
COMPANY: ARCADIS U.S., Inc.			COMPANY:	
ADDRESS: 28550 Cabot Drive Ste 500			ADDRESS:	
CITY: Novi	STATE: MI	ZIP CODE: 48377	CITY:	STATE: ZIP CODE:
PHONE NO.: 248.994.2240	FAX NO.: 248.994.2241	P.O. NO..: B0064410.2014.00206 WA045	PHONE NO.:	EMAIL ADDRESS: christi.kiker@arcadis-us.com
EMAIL ADDRES: micki.maki@arcadis-us.com; erin.kozak@arcadis-us.com; drew.shaw@arcadis-us.com; victoria.stacey@arcadis-us.com		QUOTE NO.: ARCADIS WA045		

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME: B0064410.2014.00206 / Buick City RACER Flint, MI

SAMPLER(S) - PLEASE PRINT/SIGN NAME: Adam Richmond

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☑ OTHER 5 DAY TURNAROUND

DELIVERABLES REQUIRED ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Code: GW=Groundwater WW=Waste Water S=Soil L=Liquid SD=Solid SL=Sludge DW=Drinking Water O=Oil A=Air W=Waste

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB
59863.15	1/31/14		DUP-2	S	1	1							X
.16	1/31/14	0950	MW-10 15' (5.5-6)	S	1	1							X
.17	1/31/14	1150	MW-05-13 (1-3)	S	1	1							X
.18	1/31/14	1155	MW-05-13 (8-10)	S	1	1							X

Relinquished By: Signature/Organization: [signature] ARCADIS ☑ Sampler Date: 1/31/14 Time: 1210

Recieved By: Signature/Organization: [signature] Date: 1-31-14 Time: 1210

Relinquished By: Signature/Organization: [signature] Date: 1-31-14 Time: 1315

Recieved By: Signature/Organization: Kenn George Date: 1/31/14 Time: 1315

Relinquished By: Signature/Organization: Date: Time:

Recieved By: Signature/Organization: Date: Time:

Seal No.: Seal Intact ☐ Yes ☐ No Initals:

Seal No.: Seal Intact ☐ Yes ☐ No Initals:

Notes: Temp. on arrival 4.6

Analytical Laboratory Report

Report ID: S59882.01(01)
Generated on 02/07/2014

Report to

Attention: Drew Shaw
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 248-994-2314 FAX: 248-994-2241
Email: Drew.Shaw@arcadis-us.com

Addtional Contacts: Erin Kozak, Victoria Stacey, Micki Maki

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S59882.01-S59882.12
Project: B0064410.2014.00206 / Buick City RACER Flint, MI
Collected Date: 01/31/2014
Submitted Date/Time: 02/03/2014 14:15
Sampled by: Adam Richmond
P.O. #: B0064410.2014.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (12 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S59882.01	SB-70-103-08 (3-5)	Soil	01/31/2014 14:10
S59882.02	SB-70-103-08 (5-7)	Soil	01/31/2014 14:15
S59882.03	SB-70-103-08 (7-9)	Soil	01/31/2014 14:20
S59882.04	TW-70-103-09 (3-5)	Soil	01/31/2014 14:45
S59882.05	TW-70-103-09 (5-7)	Soil	01/31/2014 14:50
S59882.06	TW-70-103-09 (7-9)	Soil	01/31/2014 14:55
S59882.07	SB-70-103-10 (3-5)	Soil	01/31/2014 15:30
S59882.08	SB-70-103-10 (5-7)	Soil	01/31/2014 15:35
S59882.09	SB-70-103-10 (7-9)	Soil	01/31/2014 15:40
S59882.10	SB-70-103-11 (3-5)	Soil	01/31/2014 16:10
S59882.11	SB-70-103-11 (5-7)	Soil	01/31/2014 16:15
S59882.12	SB-70-103-11 (7-9)	Soil	01/31/2014 16:20

Analytical Laboratory Report

Lab Sample ID: S59882.01
Sample Tag: SB-70-103-08 (3-5)
Collected Date/Time: 01/31/2014 14:10
Matrix: Soil
COC Reference: BC020314.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/05/14 09:00	RGS		
Inorganics								
Total Solids	89	%	1	Std M 2540 B	02/04/14 14:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/06/14 11:12	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/06/14 11:12	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/06/14 11:12	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/06/14 11:12	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/06/14 11:12	JAN	12672-29-6	
PCB-1254	700	ug/kg	330	SW8082A	02/06/14 11:12	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/06/14 11:12	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59882.02
Sample Tag: SB-70-103-08 (5-7)
Collected Date/Time: 01/31/2014 14:15
Matrix: Soil
COC Reference: BC020314.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/05/14 09:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	02/04/14 14:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	02/05/14 16:39	ADB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	1,000	SW8082A	02/05/14 16:39	ADB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	02/05/14 16:39	ADB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	02/05/14 16:39	ADB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	02/05/14 16:39	ADB	12672-29-6	Y
PCB-1254	4,700	ug/kg	1,000	SW8082A	02/05/14 16:39	ADB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	02/05/14 16:39	ADB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59882.03
Sample Tag: SB-70-103-08 (7-9)
Collected Date/Time: 01/31/2014 14:20
Matrix: Soil
COC Reference: BC020314.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				02/04/14 10:00	KAG		

Analytical Laboratory Report

Lab Sample ID: S59882.04
Sample Tag: TW-70-103-09 (3-5)
Collected Date/Time: 01/31/2014 14:45
Matrix: Soil
COC Reference: BC020314.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/05/14 09:00	RGS		
Inorganics								
Total Solids	89	%	1	Std M 2540 B	02/04/14 14:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	02/05/14 16:49	ADB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	500	SW8082A	02/05/14 16:49	ADB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	02/05/14 16:49	ADB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	02/05/14 16:49	ADB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	02/05/14 16:49	ADB	12672-29-6	Y
PCB-1254	3,500	ug/kg	500	SW8082A	02/05/14 16:49	ADB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	02/05/14 16:49	ADB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59882.05
Sample Tag: TW-70-103-09 (5-7)
Collected Date/Time: 01/31/2014 14:50
Matrix: Soil
COC Reference: BC020314.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/05/14 09:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	02/04/14 14:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	02/05/14 17:00	ADB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	1,000	SW8082A	02/05/14 17:00	ADB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	02/05/14 17:00	ADB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	02/05/14 17:00	ADB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	02/05/14 17:00	ADB	12672-29-6	Y
PCB-1254	6,600	ug/kg	1,000	SW8082A	02/05/14 17:00	ADB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	02/05/14 17:00	ADB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59882.06
Sample Tag: TW-70-103-09 (7-9)
Collected Date/Time: 01/31/2014 14:55
Matrix: Soil
COC Reference: BC020314.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				02/04/14 10:00	KAG		

Analytical Laboratory Report

Lab Sample ID: S59882.07
Sample Tag: SB-70-103-10 (3-5)
Collected Date/Time: 01/31/2014 15:30
Matrix: Soil
COC Reference: BC020314.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/05/14 09:00	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	02/04/14 14:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	02/05/14 17:11	ADB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	500	SW8082A	02/05/14 17:11	ADB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	02/05/14 17:11	ADB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	02/05/14 17:11	ADB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	02/05/14 17:11	ADB	12672-29-6	Y
PCB-1254	3,800	ug/kg	500	SW8082A	02/05/14 17:11	ADB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	02/05/14 17:11	ADB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59882.08
Sample Tag: SB-70-103-10 (5-7)
Collected Date/Time: 01/31/2014 15:35
Matrix: Soil
COC Reference: BC020314.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/05/14 09:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	02/04/14 14:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	02/05/14 17:21	ADB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	500	SW8082A	02/05/14 17:21	ADB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	02/05/14 17:21	ADB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	02/05/14 17:21	ADB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	02/05/14 17:21	ADB	12672-29-6	Y
PCB-1254	3,500	ug/kg	500	SW8082A	02/05/14 17:21	ADB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	02/05/14 17:21	ADB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S59882.09
Sample Tag: SB-70-103-10 (7-9)
Collected Date/Time: 01/31/2014 15:40
Matrix: Soil
COC Reference: BC020314.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				02/04/14 10:00	KAG		

Analytical Laboratory Report

Lab Sample ID: S59882.10
Sample Tag: SB-70-103-11 (3-5)
Collected Date/Time: 01/31/2014 16:10
Matrix: Soil
COC Reference: BC020314.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/07/14 09:00	RGS		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	02/04/14 14:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/07/14 11:19	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/07/14 11:19	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/07/14 11:19	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/07/14 11:19	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/07/14 11:19	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/07/14 11:19	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/07/14 11:19	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59882.11
Sample Tag: SB-70-103-11 (5-7)
Collected Date/Time: 01/31/2014 16:15
Matrix: Soil
COC Reference: BC020314.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/07/14 09:00	RGS		
Inorganics								
Total Solids	83	%	1	Std M 2540 B	02/04/14 14:00	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/07/14 11:32	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/07/14 11:32	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/07/14 11:32	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/07/14 11:32	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/07/14 11:32	JAN	12672-29-6	
PCB-1254	1,200	ug/kg	330	SW8082A	02/07/14 11:32	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/07/14 11:32	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S59882.12
Sample Tag: SB-70-103-11 (7-9)
Collected Date/Time: 01/31/2014 16:20
Matrix: Soil
COC Reference: BC020314.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				02/04/14 10:00	KAG		

Merit Laboratories, Inc.
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www.meritlabs.com

C.O.C. Page # 1 of 1 C.O.C I.D.# BCO20314.1

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Victoria Stacey, Erin Kozak, Drew Shaw
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241
P.O. NO..: B0064410.2014.00206 WA045
EMAIL ADDRES: micki.maki@arcadis-us.com; erin.kozak@arcadis-us.com; drew.shaw@arcadis-us.com; victoria.stacey@arcadis-us.com
QUOTE NO.: ARCADIS WA045

INVOICE TO

CONTACT NAME: Christi Kiker
☑ SAME
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B0064410.2014.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Adam Richmond

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☑ OTHER 5 DAY TURNAROUND

DELIVERABLES REQUIRED ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Code: GW=Groundwater; WW=Waste Water; S=Soil; L=Liquid; SD=Solid; SL=Sludge; DW=Drinking Water; O=Oil; A=Air; W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☑ Other
Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB	Special Instructions
59882.01	1/31/14	1410	SB-70-103-08 (3-5)	S	1	1							X	
.02	1/31/14	1415	SB-70-103-08 (5-7)	S	1	1							X	
.03	1/31/14	1420	SB-70-103-08 (7-9)	S	1	1							X	HOLD
.04	1/31/14	1445	TW-70-103-09 (3-5)	S	1	1							X	
.05	1/31/14	1450	TW-70-103-09 (5-7)	S	1	1							X	
.06	1/31/14	1455	TW-70-103-09 (7-9)	S	1	1							X	HOLD
.07	1/31/14	1530	~~TW-7~~ NO TWM SB-70-103-10 (3-5)	S	1	1							X	
.08	1/31/14	1535	SB-70-103-10 (5-7)	S	1	1							X	
.09	1/31/14	1540	SB-70-103-10 (7-9)	S	1	1							X	HOLD
.10	1/31/14	1610	SB-70-103-11 (3-5)	S	1	1							X	
.11	1/31/14	1615	SB-70-103-11 (5-7)	S	1	1							X	
.12	1/31/14	1620	SB-70-103-11 (7-9)	S	1	1							X	HOLD

Relinquished By: Signature/Organization: [signature] /ARCADIS ☑ Sampler Date: 2/3/14 Time: 1100
Recieved By: Signature/Organization: [signature] Date: 2-3-14 Time: 1150
Relinquished By: Signature/Organization: Date: Time:
Recieved By: Signature/Organization: Date: Time:

Relinquished By: Signature/Organization: [signature] Date: 2-3-14 Time: 1415
Recieved By: Signature/Organization: Keum George Date: 2/3/14 Time: 1415
Seal No.: Seal Intact ☐ Yes ☐ No Initals:
Seal No.: Seal Intact ☐ Yes ☐ No Initals:
Notes: Temp. on arrival 4.5

Analytical Laboratory Report

Report ID: S60130.01(01)
Generated on 02/28/2014

Report to

Attention: Drew Shaw
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 248-994-2314 FAX: 248-994-2241
Email: Drew.Shaw@arcadis-us.com

Addtional Contacts: Erin Kozak, Victoria Stacey, Micki Maki

Report produced by

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Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S60130.01-S60130.15
Project: B0064410.2014.00206 / Buick City RACER Flint, MI
Collected Date: 02/26/2014
Submitted Date/Time: 02/26/2014 14:00
Sampled by: Angela DeGrandis
P.O. #: B0064410.2014.00206

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (15 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S60130.01	SB-10-08-13(1-3)	Soil	02/26/2014 09:30
S60130.02	SB-10-08-13(4-6)	Soil	02/26/2014 09:35
S60130.03	SB-10-08-13(6-8)	Soil	02/26/2014 09:40
S60130.04	SB-10-08-13(8-10)	Soil	02/26/2014 09:45
S60130.05	SB-10-08-14(1-3)	Soil	02/26/2014 10:10
S60130.06	SB-10-08-14(4-6)	Soil	02/26/2014 10:15
S60130.07	SB-10-08-14(6-8)	Soil	02/26/2014 10:20
S60130.08	SB-10-08-14(8-10)	Soil	02/26/2014 10:25
S60130.09	SB-10-08-15(1-3)	Soil	02/26/2014 11:00
S60130.10	SB-10-08-15(4-6)	Soil	02/26/2014 11:05
S60130.11	SB-10-08-15(4-6) MS	Soil	02/26/2014 11:05
S60130.12	SB-10-08-15(4-6) MSD	Soil	02/26/2014 11:05
S60130.13	SB-10-08-15(6-8)	Soil	02/26/2014 11:10
S60130.14	SB-10-08-15(8-10)	Soil	02/26/2014 11:15
S60130.15	DUP-2	Soil	02/26/2014 00:01

Analytical Laboratory Report

Lab Sample ID: S60130.01
Sample Tag: SB-10-08-13(1-3)
Collected Date/Time: 02/26/2014 09:30
Matrix: Soil
COC Reference: BC022614.0

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/27/14 10:00	RGS		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	02/27/14 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/28/14 13:29	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/28/14 13:29	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/28/14 13:29	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/28/14 13:29	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/28/14 13:29	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/28/14 13:29	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/28/14 13:29	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S60130.02
Sample Tag: SB-10-08-13(4-6)
Collected Date/Time: 02/26/2014 09:35
Matrix: Soil
COC Reference: BC022614.0

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/27/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	02/27/14 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	02/28/14 10:06	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	02/28/14 10:06	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	02/28/14 10:06	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	02/28/14 10:06	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	02/28/14 10:06	JAN	12672-29-6	Y
PCB-1254	5,300	ug/kg	600	SW8082A	02/28/14 10:06	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	02/28/14 10:06	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S60130.03
Sample Tag: SB-10-08-13(6-8)
Collected Date/Time: 02/26/2014 09:40
Matrix: Soil
COC Reference: BC022614.0

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/27/14 10:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	02/27/14 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/28/14 10:58	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/28/14 10:58	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/28/14 10:58	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/28/14 10:58	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/28/14 10:58	JAN	12672-29-6	
PCB-1254	1,500	ug/kg	330	SW8082A	02/28/14 10:58	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/28/14 10:58	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S60130.04
Sample Tag: SB-10-08-13(8-10)
Collected Date/Time: 02/26/2014 09:45
Matrix: Soil
COC Reference: BC022614.0

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/27/14 10:00	RGS		
Inorganics								
Total Solids	88	%	1	Std M 2540 B	02/27/14 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/28/14 13:42	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/28/14 13:42	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/28/14 13:42	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/28/14 13:42	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/28/14 13:42	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/28/14 13:42	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/28/14 13:42	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S60130.05
Sample Tag: SB-10-08-14(1-3)
Collected Date/Time: 02/26/2014 10:10
Matrix: Soil
COC Reference: BC022614.0

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/27/14 10:00	RGS		
Inorganics								
Total Solids	93	%	1	Std M 2540 B	02/27/14 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/28/14 13:53	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/28/14 13:53	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/28/14 13:53	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/28/14 13:53	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/28/14 13:53	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/28/14 13:53	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/28/14 13:53	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S60130.06
Sample Tag: SB-10-08-14(4-6)
Collected Date/Time: 02/26/2014 10:15
Matrix: Soil
COC Reference: BC022614.0

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/27/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	02/27/14 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/28/14 13:03	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/28/14 13:03	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/28/14 13:03	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/28/14 13:03	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/28/14 13:03	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/28/14 13:03	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/28/14 13:03	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S60130.07
Sample Tag: SB-10-08-14(6-8)
Collected Date/Time: 02/26/2014 10:20
Matrix: Soil
COC Reference: BC022614.0

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/27/14 10:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	02/27/14 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	02/28/14 11:12	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	02/28/14 11:12	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	02/28/14 11:12	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	02/28/14 11:12	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	02/28/14 11:12	JAN	12672-29-6	Y
PCB-1254	3,500	ug/kg	600	SW8082A	02/28/14 11:12	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	02/28/14 11:12	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S60130.08
Sample Tag: SB-10-08-14(8-10)
Collected Date/Time: 02/26/2014 10:25
Matrix: Soil
COC Reference: BC022614.0

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/27/14 10:00	RGS		
Inorganics								
Total Solids	80	%	1	Std M 2540 B	02/27/14 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	02/28/14 11:24	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	02/28/14 11:24	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	02/28/14 11:24	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	02/28/14 11:24	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	02/28/14 11:24	JAN	12672-29-6	Y
PCB-1254	4,400	ug/kg	600	SW8082A	02/28/14 11:24	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	02/28/14 11:24	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S60130.09
Sample Tag: SB-10-08-15(1-3)
Collected Date/Time: 02/26/2014 11:00
Matrix: Soil
COC Reference: BC022614.0

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/27/14 10:00	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	02/27/14 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/28/14 13:16	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/28/14 13:16	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/28/14 13:16	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/28/14 13:16	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/28/14 13:16	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	02/28/14 13:16	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/28/14 13:16	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S60130.10
Sample Tag: SB-10-08-15(4-6)
Collected Date/Time: 02/26/2014 11:05
Matrix: Soil
COC Reference: BC022614.0

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/27/14 10:00	RGS		
Inorganics								
Total Solids	91	%	1	Std M 2540 B	02/27/14 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/28/14 09:20	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/28/14 09:20	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/28/14 09:20	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/28/14 09:20	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/28/14 09:20	JAN	12672-29-6	
PCB-1254	1,400	ug/kg	330	SW8082A	02/28/14 09:20	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/28/14 09:20	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S60130.11
Sample Tag: SB-10-08-15(4-6) MS
Collected Date/Time: 02/26/2014 11:05
Matrix: Soil
COC Reference: BC022614.0

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/27/14 10:00	RGS		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	02/27/14 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/28/14 09:31	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/28/14 09:31	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/28/14 09:31	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/28/14 09:31	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/28/14 09:31	JAN	12672-29-6	
PCB-1254	1,600	ug/kg	330	SW8082A	02/28/14 09:31	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/28/14 09:31	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S60130.12
Sample Tag: SB-10-08-15(4-6) MSD
Collected Date/Time: 02/26/2014 11:05
Matrix: Soil
COC Reference: BC022614.0

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/27/14 10:00	RGS		
Inorganics								
Total Solids	88	%	1	Std M 2540 B	02/27/14 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	02/28/14 09:56	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	02/28/14 09:56	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	02/28/14 09:56	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	02/28/14 09:56	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	02/28/14 09:56	JAN	12672-29-6	Y
PCB-1254	3,300	ug/kg	600	SW8082A	02/28/14 09:56	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	02/28/14 09:56	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S60130.13
Sample Tag: SB-10-08-15(6-8)
Collected Date/Time: 02/26/2014 11:10
Matrix: Soil
COC Reference: BC022614.0

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/27/14 10:00	RGS		
Inorganics								
Total Solids	79	%	1	Std M 2540 B	02/27/14 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	02/28/14 12:04	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	1,000	SW8082A	02/28/14 12:04	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	02/28/14 12:04	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	02/28/14 12:04	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	02/28/14 12:04	JAN	12672-29-6	Y
PCB-1254	7,300	ug/kg	1,000	SW8082A	02/28/14 12:04	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	02/28/14 12:04	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S60130.14
Sample Tag: SB-10-08-15(8-10)
Collected Date/Time: 02/26/2014 11:15
Matrix: Soil
COC Reference: BC022614.0

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/27/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	Std M 2540 B	02/27/14 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/28/14 12:50	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/28/14 12:50	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/28/14 12:50	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/28/14 12:50	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/28/14 12:50	JAN	12672-29-6	
PCB-1254	1,100	ug/kg	330	SW8082A	02/28/14 12:50	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/28/14 12:50	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S60130.15
Sample Tag: DUP-2
Collected Date/Time: 02/26/2014 00:01
Matrix: Soil
COC Reference: BC022614.0

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	02/27/14 10:00	RGS		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	02/27/14 16:30	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	02/28/14 12:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	02/28/14 12:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	02/28/14 12:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	02/28/14 12:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	02/28/14 12:36	JAN	12672-29-6	
PCB-1254	1,500	ug/kg	330	SW8082A	02/28/14 12:36	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	02/28/14 12:36	JAN	11096-82-5	

Merit Laboratories

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C.O.C. Page # 1 of 1 C.O.C I.D.# BC022614.01

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki, Victoria Stacey, Erin Kozak, Drew Shaw
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241
P.O. NO..: B0064410.2014.00206 WA045
EMAIL ADDRES: micki.maki@arcadis-us.com; erin.kozak@arcadis-us.com; drew.shaw@arcadis-us.com; victoria.stacey@arcadis-us.com
QUOTE NO.: ARCADIS WA045

INVOICE TO

CONTACT NAME: Christi Kiker ☑ SAME
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | EMAIL ADDRESS: christi.kiker@arcadis-us.com

PROJECT NO./NAME: B0064410.2014.00206 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Angela DeGrandis

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☑ OTHER 5 DAY TURNAROUND

DELIVERABLES REQUIRED ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Code: GW=Groundwater; WW=Waste Water; S=Soil; L=Liquid; SD=Solid; SL=Sludge; DW=Drinking Water; O=Oil; A=Air; W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCB	Special Instructions
60130.01	2/26/14	0930	SB-10-08-13 (1-3)	S	1								X	
.02		0935	SB-10-08-13 (4-6)	S	1								X	
.03		0940	SB-10-08-13 (6-8)	S	1								X	
.04		0945	SB-10-08-13 (8-10)	S	1								X	
.05		1010	SB-10-08-14 (1-3)	S	1								X	
.06		1015	SB-10-08-14 (4-6)	S	1								X	
.07		1020	SB-10-08-14 (6-8)	S	1								X	
.08		1025	SB-10-08-14 (8-10)	S	1								X	
.09		1100	SB-10-08-15 (1-3)	S	1								X	
.12, .11, .10		1105	SB-10-08-15 (4-6)	S	3								X	MS/MSD
.13		1110	SB-10-08-15 (6-8)	S	1								X	
.14		1115	SB-10-08-15 (8-10)	S	1								X	
.15			DUP-2	S	1								X	

Relinquished By: Signature/Organization: [signature] ARCADIS ☑ Sampler Date 2/26/14 Time 1600
Recieved By: Signature/Organization: [signature] Date 2/27/14 Time 1500

Relinquished By: Signature/Organization: [signature] Date 2/26/14 Time 1450
Recieved By: Signature/Organization: Kevin George Date 2/26/14 Time 1600

Relinquished By: Signature/Organization: Date Time
Recieved By: Signature/Organization: Date Time

Seal No. Seal Intact ☐ Yes ☐ No Initals
Seal No. Seal Intact ☐ Yes ☐ No Initals

Notes: Temp. on arrival 4.2

Analytical Laboratory Report

Report ID: S63425.01(01)
Generated on 11/06/2014

Report to

Attention: Scott Clearwater
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1921 FAX: 810-229-8837
Email: scott.clearwater@arcadis-us.com

Addtional Contacts: Micki Maki, Erin Kozak, Deb Newcom

Report produced by

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Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S63425.01-S63425.23
Project: B0064410.2014.00206 / Buick City Site # 1295 Task 00206
Collected Date: 10/29/2014 - 10/31/2014
Submitted Date/Time: 10/31/2014 15:00
Sampled by: James Ness
P.O. #: B0064410.2014.00206



Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 20th Edition
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8260C/5035A	SW 846 Method 8260C Revision 3 August 2006 / 5035A Revision 1 July 2002

Sample Summary (23 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63425.01	SB-10-16(4-6)	Soil	10/29/2014 16:50
S63425.02	SB-10-16(6-8)	Soil	10/30/2014 10:10
S63425.03	SB-10-16(8-10)	Soil	10/30/2014 10:15
S63425.04	SB-10-17(4-6)	Soil	10/30/2014 13:30
S63425.05	SB-10-17(6-8)	Soil	10/30/2014 13:35
S63425.06	SB-10-17(8-10)	Soil	10/30/2014 13:40
S63425.07	SB-10-18(4-6)	Soil	10/30/2014 15:40
S63425.08	SB-10-18(4-6) MS	Soil	10/30/2014 15:40
S63425.09	SB-10-18(4-6) MSD	Soil	10/30/2014 15:40
S63425.10	SB-10-18(6-8)	Soil	10/30/2014 15:55
S63425.11	SB-10-18(8-10)	Soil	10/30/2014 16:00
S63425.12	SB-10-19(4-6)	Soil	10/31/2014 11:15
S63425.13	SB-10-19(6-8)	Soil	10/31/2014 11:20
S63425.14	SB-10-19(8-10)	Soil	10/31/2014 11:25
S63425.15	TW-10-21(4-6)	Soil	10/29/2014 14:55
S63425.16	TW-10-21(6-8)	Soil	10/29/2014 15:10
S63425.17	TW-10-21(8-10)	Soil	10/29/2014 15:15
S63425.18	SB-10-16(11-13)	Soil	10/30/2014 12:00
S63425.19	SB-10-18(10-11)	Soil	10/30/2014 16:25
S63425.20	DUP-01	Soil	10/30/2014 00:01
S63425.21	SB-10-19(18-20)	Soil	10/31/2014 12:00
S63425.22	TRIP BLANK (103114)	Methanol	10/31/2014 00:01
S63425.23	AOI 10-1/10-4_COMP.	Solid	10/30/2014 12:00

Analytical Laboratory Report

Lab Sample ID: S63425.01
Sample Tag: SB-10-16(4-6)
Collected Date/Time: 10/29/2014 16:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	87	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/04/14 13:47	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/04/14 13:47	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/04/14 13:47	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/04/14 13:47	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/04/14 13:47	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/04/14 13:47	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/04/14 13:47	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63425.02
Sample Tag: SB-10-16(6-8)
Collected Date/Time: 10/30/2014 10:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	88	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/04/14 13:58	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/04/14 13:58	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/04/14 13:58	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/04/14 13:58	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/04/14 13:58	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/04/14 13:58	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/04/14 13:58	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63425.03
Sample Tag: SB-10-16(8-10)
Collected Date/Time: 10/30/2014 10:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	84	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/04/14 13:37	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/04/14 13:37	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/04/14 13:37	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/04/14 13:37	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/04/14 13:37	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/04/14 13:37	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/04/14 13:37	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63425.04
Sample Tag: SB-10-17(4-6)
Collected Date/Time: 10/30/2014 13:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	87	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/04/14 13:31	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/04/14 13:31	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/04/14 13:31	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/04/14 13:31	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/04/14 13:31	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/04/14 13:31	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/04/14 13:31	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63425.05
Sample Tag: SB-10-17(6-8)
Collected Date/Time: 10/30/2014 13:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/04/14 13:45	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/04/14 13:45	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/04/14 13:45	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/04/14 13:45	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/04/14 13:45	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/04/14 13:45	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/04/14 13:45	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63425.06
Sample Tag: SB-10-17(8-10)
Collected Date/Time: 10/30/2014 13:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	82	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/04/14 14:49	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/04/14 14:49	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/04/14 14:49	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/04/14 14:49	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/04/14 14:49	JAN	12672-29-6	
PCB-1254	700	ug/kg	330	SW8082A	11/04/14 14:49	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/04/14 14:49	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63425.07
Sample Tag: SB-10-18(4-6)
Collected Date/Time: 10/30/2014 15:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	78	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/04/14 12:15	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/04/14 12:15	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/04/14 12:15	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/04/14 12:15	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/04/14 12:15	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/04/14 12:15	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/04/14 12:15	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63425.08
Sample Tag: SB-10-18(4-6) MS
Collected Date/Time: 10/30/2014 15:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	83	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	10	ug/kg	330	SW8082A	11/04/14 12:51	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/04/14 12:51	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/04/14 12:51	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/04/14 12:51	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/04/14 12:51	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/04/14 12:51	JAN	11097-69-1	
PCB-1260	30	ug/kg	330	SW8082A	11/04/14 12:51	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63425.09
Sample Tag: SB-10-18(4-6) MSD
Collected Date/Time: 10/30/2014 15:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	71	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	10	ug/kg	330	SW8082A	11/04/14 13:04	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/04/14 13:04	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/04/14 13:04	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/04/14 13:04	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/04/14 13:04	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/04/14 13:04	JAN	11097-69-1	
PCB-1260	40	ug/kg	330	SW8082A	11/04/14 13:04	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63425.10
Sample Tag: SB-10-18(6-8)
Collected Date/Time: 10/30/2014 15:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	81	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/04/14 16:17	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/04/14 16:17	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/04/14 16:17	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/04/14 16:17	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/04/14 16:17	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/04/14 16:17	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/04/14 16:17	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63425.11
Sample Tag: SB-10-18(8-10)
Collected Date/Time: 10/30/2014 16:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/04/14 15:55	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/04/14 15:55	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/04/14 15:55	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/04/14 15:55	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/04/14 15:55	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/04/14 15:55	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/04/14 15:55	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63425.12
Sample Tag: SB-10-19(4-6)
Collected Date/Time: 10/31/2014 11:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/04/14 12:52	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/04/14 12:52	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/04/14 12:52	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/04/14 12:52	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/04/14 12:52	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/04/14 12:52	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/04/14 12:52	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63425.13
Sample Tag: SB-10-19(6-8)
Collected Date/Time: 10/31/2014 11:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	3,000	SW8082A	11/04/14 15:14	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	3,000	SW8082A	11/04/14 15:14	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	3,000	SW8082A	11/04/14 15:14	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	3,000	SW8082A	11/04/14 15:14	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	3,000	SW8082A	11/04/14 15:14	JAN	12672-29-6	Y
PCB-1254	19,000	ug/kg	3,000	SW8082A	11/04/14 15:14	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	3,000	SW8082A	11/04/14 15:14	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63425.14
Sample Tag: SB-10-19(8-10)
Collected Date/Time: 10/31/2014 11:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	83	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	11/04/14 15:27	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	11/04/14 15:27	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	11/04/14 15:27	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	11/04/14 15:27	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	11/04/14 15:27	JAN	12672-29-6	Y
PCB-1254	4,300	ug/kg	600	SW8082A	11/04/14 15:27	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	11/04/14 15:27	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63425.15
Sample Tag: TW-10-21(4-6)
Collected Date/Time: 10/29/2014 14:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	83	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	3,000	SW8082A	11/04/14 15:59	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	3,000	SW8082A	11/04/14 15:59	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	3,000	SW8082A	11/04/14 15:59	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	3,000	SW8082A	11/04/14 15:59	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	3,000	SW8082A	11/04/14 15:59	JAN	12672-29-6	Y
PCB-1254	21,000	ug/kg	3,000	SW8082A	11/04/14 15:59	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	3,000	SW8082A	11/04/14 15:59	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63425.16
Sample Tag: TW-10-21(6-8)
Collected Date/Time: 10/29/2014 15:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	81	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/04/14 16:31	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/04/14 16:31	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/04/14 16:31	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/04/14 16:31	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/04/14 16:31	JAN	12672-29-6	
PCB-1254	1,000	ug/kg	330	SW8082A	11/04/14 16:31	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/04/14 16:31	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63425.17
Sample Tag: TW-10-21(8-10)
Collected Date/Time: 10/29/2014 15:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/04/14 15:22	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/04/14 15:22	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/04/14 15:22	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/04/14 15:22	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/04/14 15:22	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/04/14 15:22	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/04/14 15:22	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63425.18
Sample Tag: SB-10-16(11-13)
Collected Date/Time: 10/30/2014 12:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	81	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/04/14 15:07	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/04/14 15:07	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/04/14 15:07	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/04/14 15:07	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/04/14 15:07	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/04/14 15:07	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/04/14 15:07	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63425.19
Sample Tag: SB-10-18(10-11)
Collected Date/Time: 10/30/2014 16:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	82	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/04/14 15:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/04/14 15:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/04/14 15:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/04/14 15:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/04/14 15:36	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/04/14 15:36	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/04/14 15:36	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63425.20
Sample Tag: DUP-01
Collected Date/Time: 10/30/2014 00:01
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/04/14 09:00	RGS		
Inorganics								
Total Solids	79	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/04/14 16:06	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/04/14 16:06	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/04/14 16:06	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/04/14 16:06	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/04/14 16:06	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/04/14 16:06	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/04/14 16:06	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63425.21
Sample Tag: SB-10-19(18-20)
Collected Date/Time: 10/31/2014 12:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/06/14 08:00	RGS		
Inorganics								
Total Solids	80	%	1	SM2540B	11/03/14 15:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/06/14 11:52	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/06/14 11:52	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/06/14 11:52	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/06/14 11:52	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/06/14 11:52	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/06/14 11:52	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/06/14 11:52	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63425.22
Sample Tag: TRIP BLANK (103114)
Collected Date/Time: 10/31/2014 00:01
Matrix: Methanol
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260C/5035A	11/04/14 21:12	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	11/04/14 21:12	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	11/04/14 21:12	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260C/5035A	11/04/14 21:12	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	750	SW8260C/5035A	11/04/14 21:12	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	11/04/14 21:12	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	11/04/14 21:12	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	200	SW8260C/5035A	11/04/14 21:12	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	11/04/14 21:12	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	11/04/14 21:12	WAT	109-99-9	
Chloroform	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	11/04/14 21:12	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	11/04/14 21:12	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	56-23-5	
Benzene	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	11/04/14 21:12	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260C/5035A	11/04/14 21:12	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	630-20-6	

M-Result reported to MDL not RDL

Lab Sample ID: S63425.22 (continued)
Sample Tag: TRIP BLANK (103114)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Ethylbenzene	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT		
o-Xylene	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	95-47-6	
Styrene	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	11/04/14 21:12	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	11/04/14 21:12	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/kg	50	SW8260C/5035A	11/04/14 21:12	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	300	SW8260C/5035A	11/04/14 21:12	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	11/04/14 21:12	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8260C/5035A	11/04/14 21:12	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	SW8260C/5035A	11/04/14 21:12	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	330	SW8260C/5035A	11/04/14 21:12	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8260C/5035A	11/04/14 21:12	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S63425.23
Sample Tag: AOI 10-1/10-4_COMP.
Collected Date/Time: 10/30/2014 12:00
Matrix: Solid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	32oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
No Analyses	Completed				11/03/14 13:45	KAG		

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID:

Send Results To:

Contact & Company Name: Erin Kozak, Scott Clearwater, Deb Newcom and Micki Maki

Telephone: 810.225.1901

Address: 10559 Citation Drive

Fax:

City: Brighton, MI State: Zip:

Email: See comments

Project Name/Location (City, State): Buick City Site # 1295 Task 00206

Project #: 60054410.2014.00206

Sampler's Printed Name: James Weis

Sampler's Signature:

Preservative: E

# of Containers: 1

Container Information: B

PARAMETER ANALYSIS & METHOD

Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic	REMARKS
03425.01 SB-10-16(4-6)	10/29/14	1650	X	X	Soil					X				
.02 SB-10-16(6-8)	10/30/14	1010	X	X	Soil					X				
.03 SB-10-16(8-10)	10/30/14	1015	X	X	Soil					X				
.04 SB-10-17(4-6)	10/30/14	1330	X	X	Soil					X				
.05 SB-10-17(6-8)	10/30/14	1335	X	X	Soil					X				
.06 SB-10-17(8-10)	10/30/14	1340	X	X	Soil					X				
.07/.08/.09 SB-10-18(4-6)	10/30/14	1540	X	X	Soil					X				*MS/MSD
.10 SB-10-18(6-8)	10/30/14	1555	X	X	Soil					X				
.11 SB-10-18(8-10)	10/30/14	1600	X	X	Soil					X				
.12 SB-10-19(4-6)	10/31	1115	X	X	Soil					X				
.13 SB-10-19(6-8)	10/31	1120	X	X	Soil					X				
.14 SB-10-19(8-10)	10/31	1125	X	X	Soil					X				
.15 TW-10-20(4-6)	10/29/14	1455	X	X	Soil					X				
.16 TW-10-20(6-8)		1510	X	X	Soil					X				
.17 TW-10-20(8-10)		1515	X	X	Soil					X				
.18 SB-10-10(11-13)	10/30/14	1200	X	X	Soil					X				
.19 SB-10-18(10-11)	10/30/14	1625	X	X	Soil					X				
.20 Dup-01	10/31/14	-	X	X	Soil					X				
.21 SB-10-19(18-20)	10/31	1200	X	X	Soil					X				
.22 TRIP BLANK (10314)	10/31	-			Water					X				

KEYS

Preservation Key:
A. H_2SO_4
B. HCL
C. NaOH
D. HNO_3
E. None
F.
G.
H.

Container Information Key:
1. 40 mL VOA
2. 1 L Amber
3. 125 mL Plastic
4. 250 mL Plastic
5. 500 mL Plastic
6. 1 L Plastic
7. 2 oz. Glass
8. 4 oz. Glass
9. 8 oz. Glass
10. Other

Matrix Key:
SE = Sediment
S= Solids
Wipe
A = Air
NL = NAPL / Oil
L= Liquid
SW = Surface

Special Instructions/Comments: P.O.#: 126116 - Please email invoices to Christi.Kiker@ARCADIS.com; email addresses: christi.kiker@arcadis-us.com; erin.kozak@arcadis-us.com
Direct bill to ARCADIS WA038

Special QA/QC Instructions (Y): Level 2, EDD
All samples immediately packed on ice.

Laboratory Information and Receipt

Lab Name: Merit

☑ Cooler packed with ice (✓)

Specify Turnaround Requirements: Standard

Fed-Ex Tracking #:

Cooler Custody Seal: ☐ Intact ☐ Not Intact

Sample Receipt:

Condition/Cooler Temp:

Relinquished By
Printed Name: James Weis
Signature:
Firm: ARCADIS
Date/Time: 10/31/14 1430

Received By
Printed Name:
Signature:
Firm: Merit
Date/Time: 10-31-14 1430

Laboratory Received By
Printed Name: Micheal Dunkman
Signature: Micheal Dunkman
Firm: MERIT
Date/Time: 10/31/14 1500 IR 5.0

Returned to Client

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

87555

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Kevin George
COMPANY: Merit Labs
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other _____

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER
			63425.23									

*Returned to Client

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Kevin George ☐ Sampler DATE: 11/3/14 TIME: 1530
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS:
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS:

NOTES: TEMP. ON ARRIVAL _____

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S63500.01(01)
Generated on 11/12/2014

Report to

Attention: Scott Clearwater
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1921 FAX: 810-229-8837
Email: scott.clearwater@arcadis-us.com

Addtional Contacts: Micki Maki, Erin Kozak, Deb Newcom

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S63500.01-S63500.31
Project: B0064410.2014.00206 / Buick City Site # 1295 Task 00206
Collected Date: 11/05/2014 - 11/06/2014
Submitted Date/Time: 11/06/2014 15:30
Sampled by: Angela DeGrandis
P.O. #: B0064410.2014.00206



Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 20th Edition
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (31 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63500.01	TW-05-05-06(11-12)	Soil	11/05/2014 08:50
S63500.02	TW-05-05-06(14-15)	Soil	11/05/2014 08:55
S63500.03	TW-05-05-06(15-17)	Soil	11/05/2014 09:00
S63500.04	TW-05-05-07(11-13)	Soil	11/05/2014 10:50
S63500.05	TW-05-05-07(13-15)	Soil	11/05/2014 10:55
S63500.06	TW-05-05-07(15-17)	Soil	11/05/2014 11:00
S63500.07	TW-05-05-08(11-13)	Soil	11/05/2014 12:00
S63500.08	TW-05-05-08(13-15)	Soil	11/05/2014 12:05
S63500.09	TW-05-05-08(15-17)	Soil	11/05/2014 12:10
S63500.10	TW-05-05-09(11-13)	Soil	11/05/2014 13:55
S63500.11	TW-05-05-09(13-15)	Soil	11/05/2014 14:00
S63500.12	TW-05-05-09(15-17)	Soil	11/05/2014 14:05
S63500.13	TW-05-05-10(11-13)	Soil	11/05/2014 15:30
S63500.14	TW-05-05-10(13-15)	Soil	11/05/2014 15:35
S63500.15	TW-05-05-10(15-17)	Soil	11/05/2014 15:40
S63500.16	TW-05-05-11(11-13)	Soil	11/06/2014 09:30
S63500.17	TW-05-05-11(13-15)	Soil	11/06/2014 09:35
S63500.18	TW-05-05-11(15-17)	Soil	11/06/2014 09:40
S63500.19	TW-05-05-12(11-13)	Soil	11/06/2014 10:45
S63500.20	TW-05-05-12(11-13) MS	Soil	11/06/2014 10:45
S63500.21	TW-05-05-12(11-13) MSD	Soil	11/06/2014 10:45
S63500.22	TW-05-05-12(13-15)	Soil	11/06/2014 10:50
S63500.23	TW-05-05-12(15-17)	Soil	11/06/2014 10:55
S63500.24	TW-05-05-13(11-13)	Soil	11/06/2014 12:10
S63500.25	TW-05-05-13(13-15)	Soil	11/06/2014 12:15
S63500.26	TW-05-05-13(15-17)	Soil	11/06/2014 12:20
S63500.27	DUP-03	Soil	11/06/2014 00:01
S63500.28	TW-05-05-14(11-13)	Soil	11/06/2014 13:50
S63500.29	TW-05-05-14(13-15)	Soil	11/06/2014 13:55
S63500.30	TW-05-05-14(15-17)	Soil	11/06/2014 14:00
S63500.31	Trip Blank-02	Methanol	11/06/2014 00:01

Analytical Laboratory Report

Lab Sample ID: S63500.01
Sample Tag: TW-05-05-06(11-12)
Collected Date/Time: 11/05/2014 08:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/07/14 12:00	RGS		
Inorganics								
Total Solids	79	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/10/14 12:25	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/10/14 12:25	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/10/14 12:25	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/10/14 12:25	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/10/14 12:25	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/10/14 12:25	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/10/14 12:25	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.02
Sample Tag: TW-05-05-06(14-15)
Collected Date/Time: 11/05/2014 08:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/07/14 12:00	RGS		
Inorganics								
Total Solids	78	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/11/14 11:04	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/11/14 11:04	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/11/14 11:04	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/11/14 11:04	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/11/14 11:04	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/11/14 11:04	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/11/14 11:04	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.03
Sample Tag: TW-05-05-06(15-17)
Collected Date/Time: 11/05/2014 09:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/07/14 12:00	RGS		
Inorganics								
Total Solids	78	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/10/14 13:07	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/10/14 13:07	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/10/14 13:07	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/10/14 13:07	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/10/14 13:07	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/10/14 13:07	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/10/14 13:07	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.04
Sample Tag: TW-05-05-07(11-13)
Collected Date/Time: 11/05/2014 10:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/07/14 12:00	RGS		
Inorganics								
Total Solids	82	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/10/14 13:18	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/10/14 13:18	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/10/14 13:18	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/10/14 13:18	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/10/14 13:18	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/10/14 13:18	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/10/14 13:18	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.05
Sample Tag: TW-05-05-07(13-15)
Collected Date/Time: 11/05/2014 10:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/07/14 12:00	RGS		
Inorganics								
Total Solids	83	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/10/14 13:28	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/10/14 13:28	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/10/14 13:28	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/10/14 13:28	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/10/14 13:28	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/10/14 13:28	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/10/14 13:28	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.06
Sample Tag: TW-05-05-07(15-17)
Collected Date/Time: 11/05/2014 11:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/07/14 12:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/10/14 13:39	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/10/14 13:39	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/10/14 13:39	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/10/14 13:39	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/10/14 13:39	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/10/14 13:39	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/10/14 13:39	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.07
Sample Tag: TW-05-05-08(11-13)
Collected Date/Time: 11/05/2014 12:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/07/14 12:00	RGS		
Inorganics								
Total Solids	84	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	2,000	SW8082A	11/11/14 11:25	JAN	12674-11-2	X
PCB-1242	Not detected	ug/kg	2,000	SW8082A	11/11/14 11:25	JAN	53469-21-9	X
PCB-1221	Not detected	ug/kg	2,000	SW8082A	11/11/14 11:25	JAN	11104-28-2	X
PCB-1232	Not detected	ug/kg	2,000	SW8082A	11/11/14 11:25	JAN	11141-16-5	X
PCB-1248	Not detected	ug/kg	2,000	SW8082A	11/11/14 11:25	JAN	12672-29-6	X
PCB-1254	Not detected	ug/kg	2,000	SW8082A	11/11/14 11:25	JAN	11097-69-1	X
PCB-1260	Not detected	ug/kg	2,000	SW8082A	11/11/14 11:25	JAN	11096-82-5	X

X-Elevated reporting limit due to matrix interference

Analytical Laboratory Report

Lab Sample ID: S63500.08
Sample Tag: TW-05-05-08(13-15)
Collected Date/Time: 11/05/2014 12:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/07/14 12:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	11/11/14 11:50	JAN	12674-11-2	Y
PCB-1242	1,000	ug/kg	1,000	SW8082A	11/11/14 11:50	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	11/11/14 11:50	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	11/11/14 11:50	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	11/11/14 11:50	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	1,000	SW8082A	11/11/14 11:50	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	11/11/14 11:50	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63500.09
Sample Tag: TW-05-05-08(15-17)
Collected Date/Time: 11/05/2014 12:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/07/14 12:00	RGS		
Inorganics								
Total Solids	81	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/11/14 10:10	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/11/14 10:10	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/11/14 10:10	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/11/14 10:10	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/11/14 10:10	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/11/14 10:10	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/11/14 10:10	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.10
Sample Tag: TW-05-05-09(11-13)
Collected Date/Time: 11/05/2014 13:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/07/14 12:00	RGS		
Inorganics								
Total Solids	81	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/11/14 10:21	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/11/14 10:21	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/11/14 10:21	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/11/14 10:21	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/11/14 10:21	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/11/14 10:21	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/11/14 10:21	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.11
Sample Tag: TW-05-05-09(13-15)
Collected Date/Time: 11/05/2014 14:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/07/14 12:00	RGS		
Inorganics								
Total Solids	81	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/11/14 10:32	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/11/14 10:32	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/11/14 10:32	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/11/14 10:32	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/11/14 10:32	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/11/14 10:32	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/11/14 10:32	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.12
Sample Tag: TW-05-05-09(15-17)
Collected Date/Time: 11/05/2014 14:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	76	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/11/14 12:20	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/11/14 12:20	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/11/14 12:20	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/11/14 12:20	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/11/14 12:20	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/11/14 12:20	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/11/14 12:20	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.13
Sample Tag: TW-05-05-10(11-13)
Collected Date/Time: 11/05/2014 15:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	82	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/11/14 12:31	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/11/14 12:31	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/11/14 12:31	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/11/14 12:31	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/11/14 12:31	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/11/14 12:31	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/11/14 12:31	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.14
Sample Tag: TW-05-05-10(13-15)
Collected Date/Time: 11/05/2014 15:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	75	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/11/14 12:42	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/11/14 12:42	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/11/14 12:42	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/11/14 12:42	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/11/14 12:42	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/11/14 12:42	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/11/14 12:42	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.15
Sample Tag: TW-05-05-10(15-17)
Collected Date/Time: 11/05/2014 15:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/11/14 12:52	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/11/14 12:52	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/11/14 12:52	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/11/14 12:52	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/11/14 12:52	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/11/14 12:52	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/11/14 12:52	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.16
Sample Tag: TW-05-05-11(11-13)
Collected Date/Time: 11/06/2014 09:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	83	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/11/14 16:58	JAN	12674-11-2	
PCB-1242	600	ug/kg	330	SW8082A	11/11/14 16:58	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/11/14 16:58	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/11/14 16:58	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/11/14 16:58	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/11/14 16:58	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/11/14 16:58	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.17
Sample Tag: TW-05-05-11(13-15)
Collected Date/Time: 11/06/2014 09:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	92	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	3,000	SW8082A	11/11/14 16:47	JAN	12674-11-2	Y
PCB-1242	17,000	ug/kg	3,000	SW8082A	11/11/14 16:47	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	3,000	SW8082A	11/11/14 16:47	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	3,000	SW8082A	11/11/14 16:47	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	3,000	SW8082A	11/11/14 16:47	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	3,000	SW8082A	11/11/14 16:47	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	3,000	SW8082A	11/11/14 16:47	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63500.18
Sample Tag: TW-05-05-11(15-17)
Collected Date/Time: 11/06/2014 09:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	80	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/11/14 17:09	JAN	12674-11-2	
PCB-1242	1,100	ug/kg	330	SW8082A	11/11/14 17:09	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/11/14 17:09	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/11/14 17:09	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/11/14 17:09	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/11/14 17:09	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/11/14 17:09	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.19
Sample Tag: TW-05-05-12(11-13)
Collected Date/Time: 11/06/2014 10:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	91	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	11/12/14 11:53	JAN	12674-11-2	Y
PCB-1242	6,000	ug/kg	1,000	SW8082A	11/12/14 11:53	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	11/12/14 11:53	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	11/12/14 11:53	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	11/12/14 11:53	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	1,000	SW8082A	11/12/14 11:53	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	11/12/14 11:53	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63500.20
Sample Tag: TW-05-05-12(11-13) MS
Collected Date/Time: 11/06/2014 10:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	89	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	11/12/14 12:04	JAN	12674-11-2	Y
PCB-1242	6,000	ug/kg	1,000	SW8082A	11/12/14 12:04	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	11/12/14 12:04	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	11/12/14 12:04	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	11/12/14 12:04	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	1,000	SW8082A	11/12/14 12:04	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	11/12/14 12:04	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63500.21
Sample Tag: TW-05-05-12(11-13) MSD
Collected Date/Time: 11/06/2014 10:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	91	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	11/12/14 12:49	JAN	12674-11-2	Y
PCB-1242	6,000	ug/kg	1,000	SW8082A	11/12/14 12:49	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	11/12/14 12:49	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	11/12/14 12:49	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	11/12/14 12:49	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	1,000	SW8082A	11/12/14 12:49	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	11/12/14 12:49	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63500.22
Sample Tag: TW-05-05-12(13-15)
Collected Date/Time: 11/06/2014 10:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/12/14 13:01	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/12/14 13:01	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/12/14 13:01	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/12/14 13:01	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/12/14 13:01	JAN	12672-29-6	
PCB-1254	400	ug/kg	330	SW8082A	11/12/14 13:01	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/12/14 13:01	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.23
Sample Tag: TW-05-05-12(15-17)
Collected Date/Time: 11/06/2014 10:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	11/11/14 17:40	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	11/11/14 17:40	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	11/11/14 17:40	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	11/11/14 17:40	JAN	11141-16-5	Y
PCB-1248	2,500	ug/kg	600	SW8082A	11/11/14 17:40	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	600	SW8082A	11/11/14 17:40	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	11/11/14 17:40	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63500.24
Sample Tag: TW-05-05-13(11-13)
Collected Date/Time: 11/06/2014 12:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/11/14 17:30	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/11/14 17:30	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/11/14 17:30	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/11/14 17:30	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/11/14 17:30	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/11/14 17:30	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/11/14 17:30	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.25
Sample Tag: TW-05-05-13(13-15)
Collected Date/Time: 11/06/2014 12:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	81	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/11/14 13:03	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/11/14 13:03	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/11/14 13:03	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/11/14 13:03	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/11/14 13:03	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/11/14 13:03	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/11/14 13:03	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.26
Sample Tag: TW-05-05-13(15-17)
Collected Date/Time: 11/06/2014 12:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	76	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/11/14 13:13	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/11/14 13:13	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/11/14 13:13	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/11/14 13:13	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/11/14 13:13	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/11/14 13:13	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/11/14 13:13	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.27
Sample Tag: DUP-03
Collected Date/Time: 11/06/2014 00:01
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	88	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	11/11/14 17:51	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	11/11/14 17:51	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	11/11/14 17:51	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	11/11/14 17:51	JAN	11141-16-5	Y
PCB-1248	2,700	ug/kg	600	SW8082A	11/11/14 17:51	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	600	SW8082A	11/11/14 17:51	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	11/11/14 17:51	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63500.28
Sample Tag: TW-05-05-14(11-13)
Collected Date/Time: 11/06/2014 13:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	78	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/11/14 13:24	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/11/14 13:24	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/11/14 13:24	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/11/14 13:24	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/11/14 13:24	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/11/14 13:24	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/11/14 13:24	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.29
Sample Tag: TW-05-05-14(13-15)
Collected Date/Time: 11/06/2014 13:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	75	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/11/14 13:34	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/11/14 13:34	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/11/14 13:34	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/11/14 13:34	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/11/14 13:34	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/11/14 13:34	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/11/14 13:34	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.30
Sample Tag: TW-05-05-14(15-17)
Collected Date/Time: 11/06/2014 14:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/10/14 10:00	RGS		
Inorganics								
Total Solids	81	%	1	SM2540B	11/10/14 19:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/11/14 13:45	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/11/14 13:45	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/11/14 13:45	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/11/14 13:45	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/11/14 13:45	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/11/14 13:45	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/11/14 13:45	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63500.31
Sample Tag: Trip Blank-02
Collected Date/Time: 11/06/2014 00:01
Matrix: Methanol
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
No Analyses	Completed				11/10/14 11:00	KAG		

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID:

Send Results To:

Contact & Company Name:	Telephone:
Erin Kozak, Scott Clearwater, Deb Newcom and Micki Maki	810.225.1901
Address:	**Fax:**
10559 Citation Drive	
City / State / Zip	**Email**
Brighton, MI	See comments
Project Name/Location (City, State):	**Project #:**
Buick City Site # 1295 Task 00206	60064410.2014.00206
Sampler's Printed Name:	**Sampler's Signature:**
Angela DeGrandis	

Preservative: non-preserved

# of Containers / Container Information: 2, 4 oz jar per sample

PARAMETER ANALYSIS & METHOD

Sample ID	Collection Date	Collection Time	Type: Comp	Type: Grab	Matrix	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic
~~SB-5-19(6-8)~~			X		Soil							X	
~~SB-5-20(2-4)~~			X		Soil							X	
~~SB-5-20(4-6)~~			X		Soil							X	
~~SB-5-20(6-8)~~			X		Soil							X	
~~SB-5-21(2-4)~~			X		Soil							X	
~~SB-5-21(4-6)~~			X		Soil							X	
~~SB-5-21(6-8)~~			X		Soil							X	
~~SB-5-22(2-4)~~			X		Soil							X	
~~SB-5-22(4-6)~~			X		Soil							X	
~~SB-5-22(6-8)~~			X		Soil							X	
.01 TW-05-05-06(11-13)	11/5/14	0850	X		Soil					X			
.02 TW-05-05-06(13-15)	11/5/14	0855	X		Soil					X			
.03 TW-05-05-06(15-17)	11/5/14	0900	X		Soil					X			
.04 TW-05-05-07(11-13)	11/5/14	1050	X		Soil					X			
.05 TW-05-05-07(13-15)	11/5/14	1055	X		Soil					X			
.06 TW-05-05-07(15-17)	11/5/14	1100	X		Soil					X			
.07 TW-05-05-08(11-13)	11/5/14	1200	X		Soil					X			

KEYS

Preservation Key / Information Key:
A. H_2SO_4
B. HCL
C. NaOH
Plastic
D. HNO_3
Plastic
E. None
Plastic
F.
G.
H.

Container
1. 40 mL VOA
2. 1 L Amber
3. 125 mL
4. 250 mL
5. 500 mL
6. 1 L Plastic
7. 2 oz. Glass
8. 4 oz. Glass
9. 8 oz. Glass
10. Other

Matrix Key:

REMARKS

Special Instructions/Comments: P.O.No: 126110 - Please email invoices to Christi Kiker (ARCADIS), email addresses: christi.kiker@arcadis-us.com; erin.kozak@arcadis-us.com
Direct bill to ARCADIS WA036

Special QA/QC Instructions (✓): Level 2, EDD

Laboratory Information and Receipt

Lab Name:	Cooler Custody Seal	Relinquished By	Received By	Laboratory Received By
Merit	☐ Intact ☐ Not Intact	Printed Name: Angela DeGrandis	Printed Name: Chris Coppernoll	Printed Name: Kevin George
☑ Cooler packed with ice (✓)		Signature:	Signature:	Signature:
Specify Turnaround Requirements: Standard	Sample Receipt:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Condition/Cooler Temp: 5.1	Date/Time: 11/6/14 1405	Date/Time: 11-6-14/ 1405	Date/Time: 11/6/14 1530

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID:

Send Results To:

Contact & Company Name:	Telephone:
Erin Kozak; Scott Clearwater, Deb Newcom and Micki Maki	810.225.1901
Address:	**Fax:**
10559 Citation Drive	
City / State / Zip	**Email**
Brighton, MI	See comments
Project Name/Location (City, State):	**Project #:**
Buick City Site # 1295 Task 00206	60064410.2014.00206
Sampler's Printed Name:	**Sampler's Signature:**
Angelia DeGrandis	

Preservative: non-preserved

# of Containers / Container Information: 1, 4oz jar per sample

PARAMETER ANALYSIS & METHOD

Sample ID	Collection Date	Collection Time	Type: Comp	Type: Grab	Matrix	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic	REMARKS
63500 TW-05-05-08(13-15)	11/5/14	1205	X		Soil					X				
.09 TW-05-05-08(15-17)	11/5/14	1210	X		Soil					X				
.10 TW-05-05-09(11-13)	11/5/14	1355	X		Soil					X				
.11 TW-05-05-09(13-15)	11/5/14	1400	X		Soil					X				
.12 TW-05-05-09(15-17)	11/5/14	1405	X		Soil					X				
.13 TW-05-05-10(11-13)	11/5/14	1530	X		Soil					X				
.14 TW-05-05-10(13-15)	11/5/14	1535	X		Soil					X				
.15 TW-05-05-10(15-17)	11/5/14	1540	X		Soil					X				
.16 TW-05-05-11(11-13)	11/6/14	0930	X		Soil					X				
.17 TW-05-05-11(13-15)	11/6/14	0935	X		Soil					X				
.18 TW-05-05-11(15-17)	11/6/14	0940	X		Soil					X				
9/.20.21 TW-05-05-12(11-13)	11/6/14	1045	X		Soil					X				* MS/MSD
.22 TW-05-05-12(13-15)	11/6/14	1050	X		Soil					X				
.23 TW-05-05-12(15-17)	11/6/14	1055	X		Soil					X				
.24 TW-05-05-13(11-13)	11/6/14	1210	X		Soil					X				
.25 TW-05-05-13(13-15)	11/6/14	1215	X		Soil					X				
.26 TW-05-05-13(15-17)	11/6/14	1220	X		Soil					X				
.27 DUP-03	11/6/14	—	X		Soil					X				

KEYS

Preservation Key: Information Key:	Container
A. H_2SO_4	1. 40 mL VOA
B. HCL	2. 1 L Amber
C. NaOH	3. 125 mL Plastic
D. HNO_3	4. 250 mL Plastic
E. None	5. 500 mL Plastic
F.	6. 1 L Plastic
G.	7. 2 oz. Glass
H.	8. 4 oz. Glass
	9. 8 oz. Glass
	10. Other

Matrix Key:

Special Instructions/Comments: P.O.No: 136110 - Please email invoices to Christi Kiker (ARCADIS). email addresses: christi.kiker@arcadis-us.com; erin.kozak@arcadis-us.com
Direct bill to ARCADIS WA036

Special QA/QC Instructions (✓): Level 2 , EDD

Laboratory Information and Receipt

Lab Name:	Cooler Custody Seal	Relinquished By	Received By	Laboratory Received By
Merit	☐ Intact ☐ Not Intact	Printed Name: Angelia DeGrandis	Printed Name: Chris Copperthwaite	Printed Name: Kevin George
☑ Cooler packed with ice (✓)		Signature:	Signature:	Signature:
Specify Turnaround Requirements: Standard	Sample Receipt:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Condition/Cooler Temp: 5.1	Date/Time: 11/6/14 1405	Date/Time: 11-6-14 1405	Date/Time: 11/6/14 1530

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID:

Send Results To:

Contact & Company Name:	Telephone:
Erin Kozak; Scott Clearwater, Deb Newcom and Micki Maki	810.225.1901
Address:	**Fax:**
10559 Citation Drive	
City State Zip	**Email**
Brighton, MI	See comments
Project Name/Location (City, State):	**Project #:**
Buick City Site # 1295 Task 00206	60064410.2014.00206
Sampler's Printed Name:	**Sampler's Signature:**
Angela DeGrandi	Angela DeGrandi

Preservative	non-preserved for 4 oz jars
# of Containers / Container Information	1, 4 oz jar per sample

PARAMETER ANALYSIS & METHOD

Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic	REMARKS
603500														
.28 TW-05-05-14(11-13)	11/6/14	1350	X		Soil					X				
.29 TW-05-05-14(13-15)	11/6/14	1355	X		Soil					X				
.30 TW-05-05-14(15-17)	11/6/14	1400	X		Soil					X				
.31 TRIP BLANK-02	11/6/14	—	X		~~Soil~~ Soil					X				Methanol preserved
			X		Soil					X				
			X		Soil					X				
			X		Soil					X			

Analytical Laboratory Report

Report ID: S63564.01(01)
Generated on 11/17/2014

Report to

Attention: Scott Clearwater
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1921 FAX: 810-229-8837
Email: scott.clearwater@arcadis-us.com

Addtional Contacts: Micki Maki, Erin Kozak, Deb Newcom

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S63564.01-S63564.21
Project: B0064410.2014.00206 / Buick City Site # 1295 Task 00206
Collected Date: 11/10/2014 - 11/11/2014
Submitted Date/Time: 11/12/2014 13:40
Sampled by: Angela DeGrandis
P.O. #: B0064410.2014.00206



Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 20th Edition
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (21 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63564.01	TW-DH-RW-1-8(5-7)	Soil	11/10/2014 12:35
S63564.02	TW-DH-RW-1-8(9-11)	Soil	11/10/2014 12:40
S63564.03	TW-DH-RW-1-8(13-15)	Soil	11/10/2014 12:45
S63564.04	TW-DH-RW-1-9(5-7)	Soil	11/10/2014 15:00
S63564.05	TW-DH-RW-1-9(5-7) MS	Soil	11/10/2014 15:00
S63564.06	TW-DH-RW-1-9(5-7) MSD	Soil	11/10/2014 15:00
S63564.07	TW-DH-RW-1-9(9-11)	Soil	11/10/2014 15:05
S63564.08	TW-DH-RW-1-9(13-15)	Soil	11/10/2014 15:10
S63564.09	TW-DH-RW-1-10(9-11)	Soil	11/10/2014 10:55
S63564.10	TW-DH-RW-1-10(13-15)	Soil	11/10/2014 11:00
S63564.11	TW-DH-RW-1-10(17-19)	Soil	11/10/2014 11:05
S63564.12	SB-DH-RW-3-17(5-7)	Soil	11/11/2014 10:50
S63564.13	SB-DH-RW-3-17(9-11)	Soil	11/11/2014 10:55
S63564.14	SB-DH-RW-3-17(11-13)	Soil	11/11/2014 11:00
S63564.15	TW-DH-RW-3-18(5-7)	Soil	11/11/2014 11:50
S63564.16	TW-DH-RW-3-18(9-11)	Soil	11/11/2014 11:55
S63564.17	TW-DH-RW-3-18(11-13)	Soil	11/11/2014 12:00
S63564.18	TW-DH-RW-3-19(5-7)	Soil	11/11/2014 14:15
S63564.19	TW-DH-RW-3-19(9-11)	Soil	11/11/2014 14:20
S63564.20	TW-DH-RW-3-19(11-13)	Soil	11/11/2014 14:25
S63564.21	DUP-04	Soil	11/10/2014 00:01

Analytical Laboratory Report

Lab Sample ID: S63564.01
Sample Tag: TW-DH-RW-1-8(5-7)
Collected Date/Time: 11/10/2014 12:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/13/14 10:00	RGS		
Inorganics								
Total Solids	83	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/13/14 14:37	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/13/14 14:37	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/13/14 14:37	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/13/14 14:37	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/13/14 14:37	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/13/14 14:37	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/13/14 14:37	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63564.02
Sample Tag: TW-DH-RW-1-8(9-11)
Collected Date/Time: 11/10/2014 12:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/13/14 10:00	RGS		
Inorganics								
Total Solids	83	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/13/14 14:50	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/13/14 14:50	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/13/14 14:50	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/13/14 14:50	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/13/14 14:50	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/13/14 14:50	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/13/14 14:50	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63564.03
Sample Tag: TW-DH-RW-1-8(13-15)
Collected Date/Time: 11/10/2014 12:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/13/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/13/14 15:14	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/13/14 15:14	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/13/14 15:14	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/13/14 15:14	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/13/14 15:14	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/13/14 15:14	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/13/14 15:14	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63564.04
Sample Tag: TW-DH-RW-1-9(5-7)
Collected Date/Time: 11/10/2014 15:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/13/14 10:00	RGS		
Inorganics								
Total Solids	92	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/14/14 12:35	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/14/14 12:35	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/14/14 12:35	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/14/14 12:35	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/14/14 12:35	JAN	12672-29-6	
PCB-1254	90	ug/kg	330	SW8082A	11/14/14 12:35	JAN	11097-69-1	b
PCB-1260	Not detected	ug/kg	330	SW8082A	11/14/14 12:35	JAN	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S63564.05
Sample Tag: TW-DH-RW-1-9(5-7) MS
Collected Date/Time: 11/10/2014 15:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/13/14 10:00	RGS		
Inorganics								
Total Solids	92	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/14/14 12:54	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/14/14 12:54	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/14/14 12:54	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/14/14 12:54	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/14/14 12:54	JAN	12672-29-6	
PCB-1254	120	ug/kg	330	SW8082A	11/14/14 12:54	JAN	11097-69-1	b
PCB-1260	Not detected	ug/kg	330	SW8082A	11/14/14 12:54	JAN	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S63564.06
Sample Tag: TW-DH-RW-1-9(5-7) MSD
Collected Date/Time: 11/10/2014 15:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/13/14 10:00	RGS		
Inorganics								
Total Solids	92	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/14/14 13:08	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/14/14 13:08	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/14/14 13:08	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/14/14 13:08	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/14/14 13:08	JAN	12672-29-6	
PCB-1254	110	ug/kg	330	SW8082A	11/14/14 13:08	JAN	11097-69-1	b
PCB-1260	Not detected	ug/kg	330	SW8082A	11/14/14 13:08	JAN	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S63564.07
Sample Tag: TW-DH-RW-1-9(9-11)
Collected Date/Time: 11/10/2014 15:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/13/14 10:00	RGS		
Inorganics								
Total Solids	88	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/14/14 14:24	JAN	12674-11-2	
PCB-1242	2,300	ug/kg	330	SW8082A	11/14/14 14:24	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/14/14 14:24	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/14/14 14:24	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/14/14 14:24	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/14/14 14:24	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/14/14 14:24	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63564.08
Sample Tag: TW-DH-RW-1-9(13-15)
Collected Date/Time: 11/10/2014 15:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/13/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/14/14 12:14	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/14/14 12:14	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/14/14 12:14	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/14/14 12:14	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/14/14 12:14	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/14/14 12:14	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/14/14 12:14	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63564.09
Sample Tag: TW-DH-RW-1-10(9-11)
Collected Date/Time: 11/10/2014 10:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/13/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/13/14 15:40	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/13/14 15:40	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/13/14 15:40	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/13/14 15:40	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/13/14 15:40	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/13/14 15:40	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/13/14 15:40	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63564.10
Sample Tag: TW-DH-RW-1-10(13-15)
Collected Date/Time: 11/10/2014 11:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/13/14 10:00	RGS		
Inorganics								
Total Solids	79	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/14/14 13:33	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/14/14 13:33	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/14/14 13:33	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/14/14 13:33	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/14/14 13:33	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/14/14 13:33	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/14/14 13:33	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63564.11
Sample Tag: TW-DH-RW-1-10(17-19)
Collected Date/Time: 11/10/2014 11:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/13/14 10:00	RGS		
Inorganics								
Total Solids	82	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/13/14 15:51	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/13/14 15:51	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/13/14 15:51	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/13/14 15:51	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/13/14 15:51	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/13/14 15:51	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/13/14 15:51	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63564.12
Sample Tag: SB-DH-RW-3-17(5-7)
Collected Date/Time: 11/11/2014 10:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/12/14 10:00	RGS		
Inorganics								
Total Solids	87	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/14/14 10:39	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/14/14 10:39	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/14/14 10:39	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/14/14 10:39	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/14/14 10:39	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/14/14 10:39	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/14/14 10:39	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63564.13
Sample Tag: SB-DH-RW-3-17(9-11)
Collected Date/Time: 11/11/2014 10:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/12/14 10:00	RGS		
Inorganics								
Total Solids	87	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	3,000	SW8082A	11/14/14 15:22	JAN	12674-11-2	Y
PCB-1242	21,000	ug/kg	3,000	SW8082A	11/14/14 15:22	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	3,000	SW8082A	11/14/14 15:22	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	3,000	SW8082A	11/14/14 15:22	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	3,000	SW8082A	11/14/14 15:22	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	3,000	SW8082A	11/14/14 15:22	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	3,000	SW8082A	11/14/14 15:22	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63564.14
Sample Tag: SB-DH-RW-3-17(11-13)
Collected Date/Time: 11/11/2014 11:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/12/14 10:00	RGS		
Inorganics								
Total Solids	82	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/14/14 10:52	JAN	12674-11-2	
PCB-1242	2,000	ug/kg	330	SW8082A	11/14/14 10:52	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/14/14 10:52	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/14/14 10:52	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/14/14 10:52	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/14/14 10:52	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/14/14 10:52	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63564.15
Sample Tag: TW-DH-RW-3-18(5-7)
Collected Date/Time: 11/11/2014 11:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/12/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/13/14 16:01	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/13/14 16:01	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/13/14 16:01	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/13/14 16:01	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/13/14 16:01	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/13/14 16:01	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/13/14 16:01	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63564.16
Sample Tag: TW-DH-RW-3-18(9-11)
Collected Date/Time: 11/11/2014 11:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/12/14 10:00	RGS		
Inorganics								
Total Solids	81	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/14/14 11:05	JAN	12674-11-2	
PCB-1242	500	ug/kg	330	SW8082A	11/14/14 11:05	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/14/14 11:05	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/14/14 11:05	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/14/14 11:05	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/14/14 11:05	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/14/14 11:05	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63564.17
Sample Tag: TW-DH-RW-3-18(11-13)
Collected Date/Time: 11/11/2014 12:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/12/14 10:00	RGS		
Inorganics								
Total Solids	77	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/14/14 11:49	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/14/14 11:49	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/14/14 11:49	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/14/14 11:49	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/14/14 11:49	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/14/14 11:49	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/14/14 11:49	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63564.18
Sample Tag: TW-DH-RW-3-19(5-7)
Collected Date/Time: 11/11/2014 14:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/12/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/14/14 14:09	JAN	12674-11-2	
PCB-1242	600	ug/kg	330	SW8082A	11/14/14 14:09	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/14/14 14:09	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/14/14 14:09	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/14/14 14:09	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/14/14 14:09	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/14/14 14:09	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63564.19
Sample Tag: TW-DH-RW-3-19(9-11)
Collected Date/Time: 11/11/2014 14:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/12/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/14/14 13:51	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/14/14 13:51	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/14/14 13:51	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/14/14 13:51	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/14/14 13:51	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/14/14 13:51	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/14/14 13:51	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63564.20
Sample Tag: TW-DH-RW-3-19(11-13)
Collected Date/Time: 11/11/2014 14:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/12/14 10:00	RGS		
Inorganics								
Total Solids	80	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/14/14 12:03	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/14/14 12:03	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/14/14 12:03	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/14/14 12:03	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/14/14 12:03	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/14/14 12:03	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/14/14 12:03	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63564.21
Sample Tag: DUP-04
Collected Date/Time: 11/10/2014 00:01
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/12/14 10:00	RGS		
Inorganics								
Total Solids	88	%	1	SM2540B	11/14/14 18:45	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	11/14/14 14:41	JAN	12674-11-2	Y
PCB-1242	2,500	ug/kg	600	SW8082A	11/14/14 14:41	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	11/14/14 14:41	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	11/14/14 14:41	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	11/14/14 14:41	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	600	SW8082A	11/14/14 14:41	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	11/14/14 14:41	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

1 of 1

eCOC ID:

Contact & Company Name:	Telephone:
Address:	Fax:
City State Zip	Email: See comments
Project Name/Location (City, State):	Project #:
Sampler's Printed Name:	Sampler's Signature: Angela Wojnicki

Preservative: non-preserved

# of Containers / Container Information: 1, 4 oz jar per sample

PARAMETER ANALYSIS & METHOD

Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic	REMARKS
635764.01 TW-DH-RW-1-8(5-7)	11/10/14	1235	x		Soil					x				
.02 TW-DH-RW-1-8(9-11)	11/10/14	1240	x		Soil					x				
.03 TW-DH-RW-1-8(13-15)	11/10/14	1245	x		Soil					x				
.04/.05/.06 TW-DH-RW-1-9(5-7)	11/10/14	1500	x		Soil					x				MS / MSD
.07 TW-DH-RW-1-9(9-11)	11/10/14	1505	x		Soil					x				
.08 TW-DH-RW-1-9(13-15)	11/10/14	1510	x		Soil					x				
.09 TW-DH-RW-1-10(5-7)(9-11)	11/10/14	1055	x		Soil					x				
.10 TW-DH-RW-1-10(9-11)(13-15)	11/10/14	1100	x		Soil					x				
.11 TW-DH-RW-1-10(13-15)(17-19)	11/10/14	1105	x		Soil					x				
.12 SB-DH-RW-3-17(5-7)	11/11/14	1050	x		Soil					x				
.13 SB-DH-RW-3-17(9-11)	11/11/14	1055	x		Soil					x				
.14 SB-DH-RW-3-17(11-13)	11/11/14	1100	x		Soil					x				
.15 TW-DH-RW-3-18(5-7)	11/11/14	1150	x		Soil					x				
.16 TW-DH-RW-3-18(9-11)	11/11/14	1155	x		Soil					x				
.17 TW-DH-RW-3-18(11-13)	11/11/14	1200	x		Soil					x				
.18 TW-DH-RW-3-19(5-7)	11/11/14	1415	x		Soil					x				
.19 TW-DH-RW-3-19(9-11)	11/11/14	1420	x		Soil					x				
.20 TW-DH-RW-3-19(11-13)	11/11/14	1425	x		Soil					x				
.21 DUP-04	11/10/14	—	X		SOIL					X				

KEYS

Preservation Key:	Container Information
Key:	
A. H_2SO_4	1. 40 mL VOA
B. HCL	2. 1 L Amber
C. NaOH	3. 125 mL Plastic
D. HNO_3	4. 250 mL Plastic
E. None	5. 500 mL Plastic
F.	6. 1 L Plastic
G.	7. 2 oz. Glass
H.	8. 4 oz. Glass
	9. 8 oz. Glass
	10. Other

Matrix Key: SE = Sediment A = Air L = Liquid

Laboratory Section	Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Printed Name:	Printed Name:	Printed Name: Kevin George
☑ Cooler packed with ice (✓)	Signature: Angela Wojnicki	Signature:	Signature:
Specify Turnaround Requirements:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Date/Time: 11/12/14 0850	Date/Time: 11-12-14 0850	Date/Time: 11/12/14 850
Custody Seal: Y / N / NA	Custody Seal Temp: 5.0		

Analytical Laboratory Report

Report ID: S63612.01(01)
Generated on 11/20/2014

Report to

Attention: Scott Clearwater
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1921 FAX: 810-229-8837
Email: scott.clearwater@arcadis-us.com

Addtional Contacts: Micki Maki, Erin Kozak, Deb Newcom

Report produced by

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East Lansing, MI 48823

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Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S63612.01-S63612.18
Project: B0064410.2014.00206 / Buick City Site # 1295 Task 00206
Collected Date: 11/11/2014 - 11/13/2014
Submitted Date/Time: 11/14/2014 14:00
Sampled by: Angela DeGrandis
P.O. #: B0064410.2014.00206



Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
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Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 20th Edition
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (18 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63612.01	TW-DH-RW-3-20(5-7)	Soil	11/12/2014 09:15
S63612.02	TW-DH-RW-3-20(9-11)	Soil	11/12/2014 09:20
S63612.03	TW-DH-RW-3-20(11-13)	Soil	11/12/2014 09:25
S63612.04	TW-DH-RW-3-21(5-7)	Soil	11/11/2014 15:10
S63612.05	TW-DH-RW-3-21(9-11)	Soil	11/11/2014 15:15
S63612.06	TW-DH-RW-3-21(11-13)	Soil	11/11/2014 15:20
S63612.07	TW-DH-RW-3-22(5-7)	Soil	11/12/2014 14:10
S63612.08	TW-DH-RW-3-22(9-11)	Soil	11/12/2014 14:15
S63612.09	TW-DH-RW-3-22(11-13)	Soil	11/12/2014 14:20
S63612.10	TW-DH-RW-3-22(11-13) MS	Soil	11/12/2014 14:20
S63612.11	TW-DH-RW-3-22(11-13) MSD	Soil	11/12/2014 14:20
S63612.12	TW-DH-RW-3-23(5-7)	Soil	11/12/2014 11:00
S63612.13	TW-DH-RW-3-23(9-11)	Soil	11/12/2014 11:05
S63612.14	TW-DH-RW-3-23(11-13)	Soil	11/12/2014 11:10
S63612.15	TW-43-165-10(5-7)	Soil	11/13/2014 12:25
S63612.16	TW-43-165-10(9-11)	Soil	11/13/2014 12:30
S63612.17	TW-43-165-10(13-15)	Soil	11/13/2014 12:35
S63612.18	DUP-05	Soil	11/12/2014 00:01

Analytical Laboratory Report

Lab Sample ID: S63612.01
Sample Tag: TW-DH-RW-3-20(5-7)
Collected Date/Time: 11/12/2014 09:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/14 8:54	ADB		
Inorganics								
Total Solids	81	%	1	SM2540B	11/17/14 17:10	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/19/14 15:31	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/19/14 15:31	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/19/14 15:31	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/19/14 15:31	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/19/14 15:31	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/19/14 15:31	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/19/14 15:31	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63612.02
Sample Tag: TW-DH-RW-3-20(9-11)
Collected Date/Time: 11/12/2014 09:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/14 9:21	ADB		
Inorganics								
Total Solids	86	%	1	SM2540B	11/17/14 17:10	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/18/14 14:33	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/18/14 14:33	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/18/14 14:33	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/18/14 14:33	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/18/14 14:33	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/18/14 14:33	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/18/14 14:33	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63612.03
Sample Tag: TW-DH-RW-3-20(11-13)
Collected Date/Time: 11/12/2014 09:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/14 9:21	ADB		
Inorganics								
Total Solids	81	%	1	SM2540B	11/17/14 17:10	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/18/14 14:43	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/18/14 14:43	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/18/14 14:43	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/18/14 14:43	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/18/14 14:43	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/18/14 14:43	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/18/14 14:43	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63612.04
Sample Tag: TW-DH-RW-3-21(5-7)
Collected Date/Time: 11/11/2014 15:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/14 9:21	ADB		
Inorganics								
Total Solids	83	%	1	SM2540B	11/17/14 17:10	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/18/14 14:54	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/18/14 14:54	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/18/14 14:54	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/18/14 14:54	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/18/14 14:54	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/18/14 14:54	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/18/14 14:54	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63612.05
Sample Tag: TW-DH-RW-3-21(9-11)
Collected Date/Time: 11/11/2014 15:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/14 9:21	ADB		
Inorganics								
Total Solids	84	%	1	SM2540B	11/17/14 17:10	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/18/14 14:07	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/18/14 14:07	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/18/14 14:07	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/18/14 14:07	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/18/14 14:07	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/18/14 14:07	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/18/14 14:07	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63612.06
Sample Tag: TW-DH-RW-3-21(11-13)
Collected Date/Time: 11/11/2014 15:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/14 9:21	ADB		
Inorganics								
Total Solids	83	%	1	SM2540B	11/17/14 17:10	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/18/14 15:05	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/18/14 15:05	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/18/14 15:05	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/18/14 15:05	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/18/14 15:05	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/18/14 15:05	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/18/14 15:05	JAN	11096-82-5	

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Lab Sample ID: S63612.07
Sample Tag: TW-DH-RW-3-22(5-7)
Collected Date/Time: 11/12/2014 14:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/14 9:21	ADB		
Inorganics								
Total Solids	86	%	1	SM2540B	11/17/14 17:10	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/18/14 13:57	JAN	12674-11-2	
PCB-1242	500	ug/kg	330	SW8082A	11/18/14 13:57	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/18/14 13:57	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/18/14 13:57	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/18/14 13:57	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/18/14 13:57	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/18/14 13:57	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63612.08
Sample Tag: TW-DH-RW-3-22(9-11)
Collected Date/Time: 11/12/2014 14:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/14 9:21	ADB		
Inorganics								
Total Solids	92	%	1	SM2540B	11/17/14 17:10	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	5,000	SW8082A	11/18/14 15:15	JAN	12674-11-2	Y
PCB-1242	27,000	ug/kg	5,000	SW8082A	11/18/14 15:15	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	5,000	SW8082A	11/18/14 15:15	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	5,000	SW8082A	11/18/14 15:15	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	5,000	SW8082A	11/18/14 15:15	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	5,000	SW8082A	11/18/14 15:15	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	5,000	SW8082A	11/18/14 15:15	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63612.09
Sample Tag: TW-DH-RW-3-22(11-13)
Collected Date/Time: 11/12/2014 14:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/14 9:21	ADB		
Inorganics								
Total Solids	82	%	1	SM2540B	11/17/14 17:10	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/18/14 13:10	JAN	12674-11-2	
PCB-1242	340	ug/kg	330	SW8082A	11/18/14 13:10	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/18/14 13:10	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/18/14 13:10	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/18/14 13:10	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/18/14 13:10	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/18/14 13:10	JAN	11096-82-5	

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Lab Sample ID: S63612.10
Sample Tag: TW-DH-RW-3-22(11-13) MS
Collected Date/Time: 11/12/2014 14:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/14 9:21	ADB		
Inorganics								
Total Solids	92	%	1	SM2540B	11/17/14 17:10	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/18/14 13:20	JAN	12674-11-2	
PCB-1242	500	ug/kg	330	SW8082A	11/18/14 13:20	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/18/14 13:20	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/18/14 13:20	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/18/14 13:20	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/18/14 13:20	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/18/14 13:20	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63612.11
Sample Tag: TW-DH-RW-3-22(11-13) MSD
Collected Date/Time: 11/12/2014 14:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/18/14 9:21	ADB		
Inorganics								
Total Solids	81	%	1	SM2540B	11/17/14 17:10	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/18/14 13:46	JAN	12674-11-2	
PCB-1242	1,900	ug/kg	330	SW8082A	11/18/14 13:46	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/18/14 13:46	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/18/14 13:46	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/18/14 13:46	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/18/14 13:46	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/18/14 13:46	JAN	11096-82-5	

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Lab Sample ID: S63612.12
Sample Tag: TW-DH-RW-3-23(5-7)
Collected Date/Time: 11/12/2014 11:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/14 8:54	ADB		
Inorganics								
Total Solids	84	%	1	SM2540B	11/17/14 17:10	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/14 15:00	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/14 15:00	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/14 15:00	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/14 15:00	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/14 15:00	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/14 15:00	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/14 15:00	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63612.13
Sample Tag: TW-DH-RW-3-23(9-11)
Collected Date/Time: 11/12/2014 11:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/14 8:54	ADB		
Inorganics								
Total Solids	89	%	1	SM2540B	11/17/14 17:10	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	2,000	SW8082A	11/19/14 15:10	JAN	12674-11-2	Y
PCB-1242	9,000	ug/kg	2,000	SW8082A	11/19/14 15:10	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	2,000	SW8082A	11/19/14 15:10	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	2,000	SW8082A	11/19/14 15:10	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	2,000	SW8082A	11/19/14 15:10	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	2,000	SW8082A	11/19/14 15:10	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	2,000	SW8082A	11/19/14 15:10	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63612.14
Sample Tag: TW-DH-RW-3-23(11-13)
Collected Date/Time: 11/12/2014 11:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/14 8:54	ADB		
Inorganics								
Total Solids	86	%	1	SM2540B	11/17/14 17:10	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	2,000	SW8082A	11/19/14 15:20	JAN	12674-11-2	Y
PCB-1242	12,000	ug/kg	2,000	SW8082A	11/19/14 15:20	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	2,000	SW8082A	11/19/14 15:20	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	2,000	SW8082A	11/19/14 15:20	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	2,000	SW8082A	11/19/14 15:20	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	2,000	SW8082A	11/19/14 15:20	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	2,000	SW8082A	11/19/14 15:20	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63612.15
Sample Tag: TW-43-165-10(5-7)
Collected Date/Time: 11/13/2014 12:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/14 8:54	ADB		
Inorganics								
Total Solids	84	%	1	SM2540B	11/17/14 17:10	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/19/14 17:03	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/19/14 17:03	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/19/14 17:03	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/19/14 17:03	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/19/14 17:03	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/19/14 17:03	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/19/14 17:03	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63612.16
Sample Tag: TW-43-165-10(9-11)
Collected Date/Time: 11/13/2014 12:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/14 8:54	ADB		
Inorganics								
Total Solids	84	%	1	SM2540B	11/17/14 17:10	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/19/14 17:14	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/19/14 17:14	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/19/14 17:14	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/19/14 17:14	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/19/14 17:14	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/19/14 17:14	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/19/14 17:14	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63612.17
Sample Tag: TW-43-165-10(13-15)
Collected Date/Time: 11/13/2014 12:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/14 8:54	ADB		
Inorganics								
Total Solids	85	%	1	SM2540B	11/17/14 17:10	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/19/14 17:24	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/19/14 17:24	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/19/14 17:24	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/19/14 17:24	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/19/14 17:24	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/19/14 17:24	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/19/14 17:24	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63612.18
Sample Tag: DUP-05
Collected Date/Time: 11/12/2014 00:01
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/14 8:54	ADB		
Inorganics								
Total Solids	87	%	1	SM2540B	11/17/14 17:10	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/19/14 15:56	JAN	12674-11-2	
PCB-1242	600	ug/kg	330	SW8082A	11/19/14 15:56	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/19/14 15:56	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/19/14 15:56	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/19/14 15:56	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/19/14 15:56	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/19/14 15:56	JAN	11096-82-5	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

1 of 1

eCOC ID:

Send Results To:

Contact & Company Name:	Erin Kozak, Scott Clearwater, Deb Newcom and Micki Maki
Address:	10559 Citation Drive
City / State / Zip	Brighton, MI
Telephone:	810.225.1901
Fax:	
Email	See comments
Project Name/Location (City, State):	Buick City Site # 1295 Task 00206
Project #:	B0064410.2014.00206
Sampler's Printed Name:	Angela Debrandis
Sampler's Signature:	Angela Debrandis

Preservative: non-preserved

# of Containers / Container Information: 1, 4oz jar per sample

PARAMETER ANALYSIS & METHOD

KEYS

Preservation Key / Container Information Key:

A. H_2SO_4	1. 40 mL VOA
B. HCL	2. 1 L Amber
C. NaOH	3. 125 mL Plastic
D. HNO_3	4. 250 mL Plastic
E. None	5. 500 mL Plastic
F.	6. 1 L Plastic
G.	7. 2 oz. Glass
H.	8. 4 oz. Glass
	9. 8 oz. Glass
	10. Other

Matrix Key: SE = Sediment A = Air L=

	Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic	REMARKS
63612															
.01	TW-DH-RW-3-20(5-7)	11/12/14	0915	X		Soil					X				
.02	TW-DH-RW-3-20(9-11)	11/12/14	0920	X		Soil					X				
.03	TW-DH-RW-3-20(11-13)	11/12/14	0925	X		Soil					X				
.04	TW-DH-RW-3-21(5-7)	11/11/14	1510	X		Soil					X				
.05	TW-DH-RW-3-21(9-11)	11/11/14	1515	X		Soil					X				
.06	TW-DH-RW-3-21(11-13)	11/11/14	1520	X		Soil					X				
.07	TW-DH-RW-3-22(5-7)	11/12/14	1410	X		Soil					X				
.08	TW-DH-RW-3-22(9-11)	11/12/14	1415	X		Soil					X				
.09/.10/.11	TW-DH-RW-3-22(11-13)	11/12/14	1420	X		Soil					X				MS/MSD
.12	TW-DH-RW-3-23(5-7)	11/12/14	1100	X		Soil					X				
.13	TW-DH-RW-3-23(9-11)	11/12/14	1105	X		Soil					X				
.14	TW-DH-RW-3-23(11-13)	11/12/14	1110	X		Soil					X				
	~~TW-DH-RW-3-24(5-7)~~			X		Soil					X				
	~~TW-DH-RW-3-24(9-11)~~			X		Soil					X				NO 11/12
	~~TW-DH-RW-3-24(11-13)~~			X		Soil					X				
.15	TW-43-165-10(5-7)	11/13/14	1225	X		Soil					X				
.16	TW-43-165-10(9-11)	11/13/14	1230	X		Soil					X				
.17	TW-43-165-10(13-15)	11/13/14	1235	X		Soil					X				
.18	DUP-05	11/12/14	—	X		Soil					X				

Special Instructions/Comments: P.O.No: 126110 - Please email invoices to Christi Kiker (ARCADIS).
email addresses: christi.kiker@arcadis-us.com; erin.kozak@arcadis-us.com
Direct bill to ARCADIS WA063

Special QA/QC Instructions (✓): Level 2 , EDD

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal: ☐ Intact ☐ Not Intact	Printed Name: Angela Debrandis	Printed Name: DOUG MILLER	Printed Name: Michela Dunkman
☑ Cooler packed with ice (✓)		Signature: Angela Debrandis	Signature:	Signature: Michela Dunkman
Specify Turnaround Requirements: Standard	Sample Receipt:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Condition/Cooler Temp:	Date/Time: 11/14/14 1250	Date/Time: 11/14/14 12:50	Date/Time: 11/14/2014 1400

Analytical Laboratory Report

Report ID: S63613.01(01)
Generated on 11/21/2014

Report to

Attention: Scott Clearwater
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1921 FAX: 810-229-8837
Email: scott.clearwater@arcadis-us.com

Addtional Contacts: Micki Maki, Erin Kozak, Deb Newcom

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S63613.01-S63613.21
Project: B0064410.2014.00206 / Buick City Site # 1295 Task 00206
Collected Date: 11/12/2014 - 11/13/2014
Submitted Date/Time: 11/14/2014 14:00
Sampled by: Angela DeGrandis
P.O. #: B0064410.2014.00206



Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 20th Edition
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (21 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63613.01	TW-43-165-11(5-7)	Soil	11/13/2014 11:15
S63613.02	TW-43-165-11(9-11)	Soil	11/13/2014 11:20
S63613.03	TW-43-165-11(13-15)	Soil	11/13/2014 11:25
S63613.04	TW-43-165-12(5-7)	Soil	11/12/2014 15:05
S63613.05	TW-43-165-12(9-11)	Soil	11/12/2014 15:10
S63613.06	TW-43-165-12(13-15)	Soil	11/12/2014 15:15
S63613.07	TW-43-165-13(5-7)	Soil	11/12/2014 16:40
S63613.08	TW-43-165-13(9-11)	Soil	11/12/2014 16:45
S63613.09	TW-43-165-13(13-15)	Soil	11/12/2014 16:50
S63613.10	SB-05-16(1.5-2)	Soil	11/13/2014 14:40
S63613.11	SB-05-16(2-4)	Soil	11/13/2014 15:05
S63613.12	SB-05-17(1.5-2)	Soil	11/13/2014 15:10
S63613.13	SB-05-17(2-4)	Soil	11/13/2014 15:15
S63613.14	SB-05-18(1.5-2)	Soil	11/13/2014 15:25
S63613.15	SB-05-18(2-4)	Soil	11/13/2014 15:30
S63613.16	SB-05-19(0-2)	Soil	11/13/2014 15:45
S63613.17	SB-05-19(0-2) MS	Soil	11/13/2014 15:45
S63613.18	SB-05-19(0-2) MSD	Soil	11/13/2014 15:45
S63613.19	SB-05-19(2-4)	Soil	11/13/2014 15:50
S63613.20	SB-05-19(4-6)	Soil	11/13/2014 15:55
S63613.21	DUP-06	Soil	11/13/2014 00:01

Analytical Laboratory Report

Lab Sample ID: S63613.01
Sample Tag: TW-43-165-11(5-7)
Collected Date/Time: 11/13/2014 11:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/14 8:54	ADB		
Inorganics								
Total Solids	78	%	1	SM2540B	11/18/14 16:50	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/19/14 16:07	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/19/14 16:07	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/19/14 16:07	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/19/14 16:07	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/19/14 16:07	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/19/14 16:07	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/19/14 16:07	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63613.02
Sample Tag: TW-43-165-11(9-11)
Collected Date/Time: 11/13/2014 11:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/14 8:54	ADB		
Inorganics								
Total Solids	86	%	1	SM2540B	11/18/14 16:50	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/19/14 17:35	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/19/14 17:35	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/19/14 17:35	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/19/14 17:35	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/19/14 17:35	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/19/14 17:35	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/19/14 17:35	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63613.03
Sample Tag: TW-43-165-11(13-15)
Collected Date/Time: 11/13/2014 11:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/14 8:54	ADB		
Inorganics								
Total Solids	81	%	1	SM2540B	11/18/14 16:50	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/19/14 17:45	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/19/14 17:45	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/19/14 17:45	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/19/14 17:45	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/19/14 17:45	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/19/14 17:45	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/19/14 17:45	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63613.04
Sample Tag: TW-43-165-12(5-7)
Collected Date/Time: 11/12/2014 15:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/19/14 8:54	ADB		
Inorganics								
Total Solids	88	%	1	SM2540B	11/18/14 16:50	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/19/14 17:56	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/19/14 17:56	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/19/14 17:56	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/19/14 17:56	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/19/14 17:56	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/19/14 17:56	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/19/14 17:56	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63613.05
Sample Tag: TW-43-165-12(9-11)
Collected Date/Time: 11/12/2014 15:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/14 9:14	ADB		
Inorganics								
Total Solids	81	%	1	SM2540B	11/18/14 17:20	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/21/14 12:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/21/14 12:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/21/14 12:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/21/14 12:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/21/14 12:36	JAN	12672-29-6	
PCB-1254	300	ug/kg	330	SW8082A	11/21/14 12:36	JAN	11097-69-1	b
PCB-1260	Not detected	ug/kg	330	SW8082A	11/21/14 12:36	JAN	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S63613.06
Sample Tag: TW-43-165-12(13-15)
Collected Date/Time: 11/12/2014 15:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/14 9:14	ADB		
Inorganics								
Total Solids	81	%	1	SM2540B	11/18/14 17:20	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/14 12:49	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/14 12:49	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/14 12:49	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/14 12:49	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/14 12:49	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/14 12:49	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/14 12:49	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63613.07
Sample Tag: TW-43-165-13(5-7)
Collected Date/Time: 11/12/2014 16:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/14 9:14	ADB		
Inorganics								
Total Solids	85	%	1	SM2540B	11/18/14 17:20	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/14 15:41	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/14 15:41	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/14 15:41	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/14 15:41	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/14 15:41	JAN	12672-29-6	
PCB-1254	900	ug/kg	330	SW8082A	11/20/14 15:41	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/14 15:41	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63613.08
Sample Tag: TW-43-165-13(9-11)
Collected Date/Time: 11/12/2014 16:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/14 9:14	ADB		
Inorganics								
Total Solids	84	%	1	SM2540B	11/18/14 17:20	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/14 13:02	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/14 13:02	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/14 13:02	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/14 13:02	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/14 13:02	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/14 13:02	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/14 13:02	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63613.09
Sample Tag: TW-43-165-13(13-15)
Collected Date/Time: 11/12/2014 16:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/14 9:14	ADB		
Inorganics								
Total Solids	85	%	1	SM2540B	11/18/14 17:20	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/14 13:20	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/14 13:20	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/14 13:20	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/14 13:20	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/14 13:20	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/14 13:20	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/14 13:20	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63613.10
Sample Tag: SB-05-16(1.5-2)
Collected Date/Time: 11/13/2014 14:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	11/18/14 13:00	PER		
Inorganics								
Total Solids	91	%	1	SM2540B	11/18/14 17:20	BJB		
Metals								
Lead	24.8	mg/kg	0.30	SW6020A	11/18/14 15:29	PER	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S63613.11
Sample Tag: SB-05-16(2-4)
Collected Date/Time: 11/13/2014 15:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	11/18/14 13:00	PER		
Inorganics								
Total Solids	90	%	1	SM2540B	11/18/14 17:20	BJB		
Metals								
Lead	404	mg/kg	0.30	SW6020A	11/18/14 15:30	PER	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S63613.12
Sample Tag: SB-05-17(1.5-2)
Collected Date/Time: 11/13/2014 15:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	11/18/14 13:00	PER		
Inorganics								
Total Solids	96	%	1	SM2540B	11/18/14 17:20	BJB		
Metals								
Lead	29.7	mg/kg	0.30	SW6020A	11/18/14 15:32	PER	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S63613.13
Sample Tag: SB-05-17(2-4)
Collected Date/Time: 11/13/2014 15:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	11/18/14 13:00	PER		
Inorganics								
Total Solids	92	%	1	SM2540B	11/18/14 17:20	BJB		
Metals								
Lead	59.7	mg/kg	0.30	SW6020A	11/18/14 15:33	PER	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S63613.14
Sample Tag: SB-05-18(1.5-2)
Collected Date/Time: 11/13/2014 15:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	11/18/14 13:00	PER		
Inorganics								
Total Solids	89	%	1	SM2540B	11/18/14 17:20	BJB		
Metals								
Lead	77.2	mg/kg	0.30	SW6020A	11/18/14 15:34	PER	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S63613.15
Sample Tag: SB-05-18(2-4)
Collected Date/Time: 11/13/2014 15:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	11/18/14 13:00	PER		
Inorganics								
Total Solids	88	%	1	SM2540B	11/18/14 17:20	BJB		
Metals								
Lead	402	mg/kg	0.30	SW6020A	11/18/14 15:35	PER	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S63613.16
Sample Tag: SB-05-19(0-2)
Collected Date/Time: 11/13/2014 15:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	11/18/14 13:00	PER		
Inorganics								
Total Solids	92	%	1	SM2540B	11/18/14 17:20	BJB		
Metals								
Lead	68.4	mg/kg	0.30	SW6020A	11/18/14 15:37	PER	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S63613.17
Sample Tag: SB-05-19(0-2) MS
Collected Date/Time: 11/13/2014 15:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	11/18/14 13:00	PER		
Inorganics								
Total Solids	92	%	1	SM2540B	11/18/14 17:20	BJB		
Metals								
Lead	91.2	mg/kg	0.30	SW6020A	11/18/14 15:43	PER	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S63613.18
Sample Tag: SB-05-19(0-2) MSD
Collected Date/Time: 11/13/2014 15:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	11/18/14 13:00	PER		
Inorganics								
Total Solids	91	%	1	SM2540B	11/18/14 17:20	BJB		
Metals								
Lead	91.8	mg/kg	0.30	SW6020A	11/18/14 15:45	PER	7439-92-1	

Analytical Laboratory Report

Lab Sample ID: S63613.19
Sample Tag: SB-05-19(2-4)
Collected Date/Time: 11/13/2014 15:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	11/18/14 13:00	PER		
Inorganics								
Total Solids	91	%	1	SM2540B	11/18/14 17:20	BJB		
Metals								
Lead	164	mg/kg	0.30	SW6020A	11/18/14 15:46	PER	7439-92-1	
Manganese	407	mg/kg	0.50	SW6020A	11/18/14 15:46	PER	7439-96-5	

Analytical Laboratory Report

Lab Sample ID: S63613.20
Sample Tag: SB-05-19(4-6)
Collected Date/Time: 11/13/2014 15:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	11/18/14 13:00	PER		
Inorganics								
Total Solids	92	%	1	SM2540B	11/18/14 17:20	BJB		
Metals								
Manganese	2,200	mg/kg	0.50	SW6020A	11/18/14 15:50	PER	7439-96-5	

Analytical Laboratory Report

Lab Sample ID: S63613.21
Sample Tag: DUP-06
Collected Date/Time: 11/13/2014 00:01
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	11/18/14 13:00	PER		
Inorganics								
Total Solids	93	%	1	SM2540B	11/18/14 17:20	BJB		
Metals								
Lead	143	mg/kg	0.30	SW6020A	11/18/14 15:52	PER	7439-92-1	
Manganese	744	mg/kg	0.50	SW6020A	11/18/14 15:52	PER	7439-96-5	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

1 of 1 eCOC ID:

Send Results To:

Contact & Company Name:	Erin Kozak, Scott Clearwater, Deb Newcom and Micki Maki
Address:	10559 Citation Drive
City / State / Zip	Brighton, MI
Telephone:	810.226.1901
Fax:	
Email	See comments
Project Name/Location (City, State):	Buick City Site # 1295 Task 00206
Project #:	B00644.10.2014.00206
Sampler's Printed Name:	Angela DeGrandis
Sampler's Signature:	Angela DeGrandis

Preservative: Non-preserved

# of Containers / Container Information: 1. 4 oz jar per sample

PARAMETER ANALYSIS & METHOD

KEYS

Preservation Key:
A. H_2SO_4
B. HCL
C. NaOH
D. HNO_3
E. None
F.
G.
H.

Container Information Key:
1. 40 mL VOA
2. 1 L Amber
3. 125 mL Plastic
4. 250 mL Plastic
5. 500 mL Plastic
6. 1 L Plastic
7. 2 oz. Glass
8. 4 oz. Glass
9. 8 oz. Glass
10. Other

Matrix Key: SE = Sediment A = Air L= Liquid

	Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic	REMARKS
631613															
.01	TW-43-165-11(5-7)	11/13/14	1115	X		Soil					X				
.02	TW-43-165-11(9-11)	11/13/14	1120	X		Soil					X				
.03	TW-43-165-11(13-15)	11/13/14	1125	X		Soil					X				
.04	TW-43-165-12(5-7)	11/12/14	1505	X		Soil					X				
.05	TW-43-165-12(9-11)	11/12/14	1510	X		Soil					X				
.06	TW-43-165-12(13-15)	11/12/14	1515	X		Soil					X				
.07	TW-43-165-13(5-7)	11/12/14	1640	X		Soil					X				
.08	TW-43-165-13(9-11)	11/12/14	1645	X		Soil					X				
.09	TW-43-165-13(13-15)	11/12/14	1650	X		Soil					X				
.10	SB-05-16~~(0-2)~~ (1.5-2)	11/13/14	1440	X		Soil						X			
.11	SB-05-16(2-4)	11/13/14	1505	X		Soil						X			
.12	SB-05-17~~(0-2)~~ (1.5-2)	11/13/14	1510	X		Soil						X			
.13	SB-05-17(2-4)	11/13/14	1515	X		Soil						X			
.14	SB-05-18~~(0-2)~~ (1.5-2)	11/13/14	1525	X		Soil						X			
.15	SB-05-18(2-4)	11/13/14	1530	X		Soil						X			
16/17/18	SB-05-19(0-2)	11/13/14	1545	X		Soil						X			MS/MSD
.19	SB-05-19(2-4)	11/13/14	1550	X		Soil						X	X		
.20	SB-05-19(4-6)	11/13/14	1555	X		Soil							X		
.21	Dup-06	11/13/14	—	X		Soil						X	X		

Special Instructions/Comments: P.O.No: 126110 - Please email invoices to Christi Kiker (ARCADIS).
email addresses: christi.kiker@arcadis-us.com; erin.kozak@arcadis-us.com
Direct bill to ARCADIS WA083

Special QA/QC Instructions (✓): Level 2 , EDD

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal: ☐ Intact ☐ Not Intact	Printed Name: Angela DeGrandis	Printed Name: DOUG MILLER	Printed Name: Michele Dunkman
☑ Cooler packed with ice (✓)		Signature: Angela DeGrandis	Signature:	Signature: Michele Dunkman
Specify Turnaround Requirements: Standard	Sample Receipt:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Condition/Cooler Temp:	Date/Time: 11/14/14 1250	Date/Time: 11/14/14 12:50	Date/Time: 11/14/2014 1400

Analytical Laboratory Report

Report ID: S63645.01(01)
Generated on 11/24/2014

Report to

Attention: Scott Clearwater
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1921 FAX: 810-229-8837
Email: scott.clearwater@arcadis-us.com

Addtional Contacts: Micki Maki, Erin Kozak, Deb Newcom

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S63645.01-S63645.16
Project: B0064410.2014.00206 / Buick City Site # 1295 Task 00206
Collected Date: 11/14/2014 - 11/17/2014
Submitted Date/Time: 11/18/2014 14:10
Sampled by: Angela DeGrandis
P.O. #: B0064410.2014.00206



Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 20th Edition
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (16 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63645.01	TW-03-03-1(8-10)	Soil	11/14/2014 12:00
S63645.02	TW-03-03-2(8-10)	Soil	11/17/2014 10:40
S63645.03	TW-03-03-3(8-10)	Soil	11/14/2014 14:45
S63645.04	TW-03-03-4(8-10)	Soil	11/14/2014 14:00
S63645.05	TW-70-101-8(0-2)	Soil	11/17/2014 16:35
S63645.06	TW-70-101-8(0-2) MS	Soil	11/17/2014 16:35
S63645.07	TW-70-101-8(0-2) MSD	Soil	11/17/2014 16:35
S63645.08	TW-70-101-8(3-5)	Soil	11/17/2014 16:40
S63645.09	TW-70-101-8(7-8)	Soil	11/17/2014 16:45
S63645.10	TW-70-101-9(0-2)	Soil	11/17/2014 15:30
S63645.11	TW-70-101-9(3-5)	Soil	11/17/2014 15:35
S63645.12	TW-70-101-9(7-9)	Soil	11/17/2014 15:40
S63645.13	TW-70-101-10(0-2)	Soil	11/17/2014 14:00
S63645.14	TW-70-101-10(3-5)	Soil	11/17/2014 14:05
S63645.15	TW-70-101-10(7-9)	Soil	11/17/2014 14:10
S63645.16	DUP-07	Soil	11/17/2014 00:01

Analytical Laboratory Report

Lab Sample ID: S63645.01
Sample Tag: TW-03-03-1(8-10)
Collected Date/Time: 11/14/2014 12:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/14 9:14	ADB		
Inorganics								
Total Solids	87	%	1	SM2540B	11/18/14 17:40	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/14 15:03	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/14 15:03	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/14 15:03	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/14 15:03	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/14 15:03	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/14 15:03	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/14 15:03	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63645.02
Sample Tag: TW-03-03-2(8-10)
Collected Date/Time: 11/17/2014 10:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/14 9:14	ADB		
Inorganics								
Total Solids	92	%	1	SM2540B	11/18/14 17:40	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/14 15:13	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/14 15:13	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/14 15:13	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/14 15:13	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/14 15:13	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/14 15:13	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/14 15:13	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63645.03
Sample Tag: TW-03-03-3(8-10)
Collected Date/Time: 11/14/2014 14:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/14 9:14	ADB		
Inorganics								
Total Solids	87	%	1	SM2540B	11/18/14 17:40	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	11/20/14 15:11	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	11/20/14 15:11	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	11/20/14 15:11	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	11/20/14 15:11	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	11/20/14 15:11	JAN	12672-29-6	Y
PCB-1254	1,800	ug/kg	600	SW8082A	11/20/14 15:11	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	11/20/14 15:11	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63645.04
Sample Tag: TW-03-03-4(8-10)
Collected Date/Time: 11/14/2014 14:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/14 9:14	ADB		
Inorganics								
Total Solids	87	%	1	SM2540B	11/18/14 17:40	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/14 16:50	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/14 16:50	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/14 16:50	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/14 16:50	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/14 16:50	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/14 16:50	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/14 16:50	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63645.05
Sample Tag: TW-70-101-8(0-2)
Collected Date/Time: 11/17/2014 16:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/14 9:14	ADB		
Inorganics								
Total Solids	89	%	1	SM2540B	11/18/14 17:40	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/14 15:52	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/14 15:52	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/14 15:52	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/14 15:52	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/14 15:52	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/14 15:52	JAN	11097-69-1	
PCB-1260	340	ug/kg	330	SW8082A	11/20/14 15:52	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63645.06
Sample Tag: TW-70-101-8(0-2) MS
Collected Date/Time: 11/17/2014 16:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/14 9:14	ADB		
Inorganics								
Total Solids	89	%	1	SM2540B	11/18/14 17:40	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/14 16:11	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/14 16:11	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/14 16:11	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/14 16:11	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/14 16:11	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/14 16:11	JAN	11097-69-1	
PCB-1260	410	ug/kg	330	SW8082A	11/20/14 16:11	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63645.07
Sample Tag: TW-70-101-8(0-2) MSD
Collected Date/Time: 11/17/2014 16:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/14 9:14	ADB		
Inorganics								
Total Solids	87	%	1	SM2540B	11/18/14 17:40	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/14 16:39	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/14 16:39	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/14 16:39	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/14 16:39	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/14 16:39	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/14 16:39	JAN	11097-69-1	
PCB-1260	710	ug/kg	330	SW8082A	11/20/14 16:39	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63645.08
Sample Tag: TW-70-101-8(3-5)
Collected Date/Time: 11/17/2014 16:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 9:01	ADB		
Inorganics								
Total Solids	87	%	1	SM2540B	11/18/14 17:40	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/21/14 13:07	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/21/14 13:07	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/21/14 13:07	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/21/14 13:07	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/21/14 13:07	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/21/14 13:07	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/21/14 13:07	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63645.09
Sample Tag: TW-70-101-8(7-8)
Collected Date/Time: 11/17/2014 16:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 9:01	ADB		
Inorganics								
Total Solids	81	%	1	SM2540B	11/18/14 17:40	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/24/14 16:11	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/24/14 16:11	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/24/14 16:11	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/24/14 16:11	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/24/14 16:11	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/24/14 16:11	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/24/14 16:11	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63645.10
Sample Tag: TW-70-101-9(0-2)
Collected Date/Time: 11/17/2014 15:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 9:01	ADB		
Inorganics								
Total Solids	84	%	1	SM2540B	11/18/14 17:40	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/21/14 13:39	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/21/14 13:39	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/21/14 13:39	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/21/14 13:39	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/21/14 13:39	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/21/14 13:39	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/21/14 13:39	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63645.11
Sample Tag: TW-70-101-9(3-5)
Collected Date/Time: 11/17/2014 15:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 9:01	ADB		
Inorganics								
Total Solids	83	%	1	SM2540B	11/18/14 17:40	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/21/14 13:49	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/21/14 13:49	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/21/14 13:49	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/21/14 13:49	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/21/14 13:49	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/21/14 13:49	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/21/14 13:49	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63645.12
Sample Tag: TW-70-101-9(7-9)
Collected Date/Time: 11/17/2014 15:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 9:01	ADB		
Inorganics								
Total Solids	82	%	1	SM2540B	11/18/14 17:40	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/21/14 13:59	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/21/14 13:59	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/21/14 13:59	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/21/14 13:59	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/21/14 13:59	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/21/14 13:59	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/21/14 13:59	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63645.13
Sample Tag: TW-70-101-10(0-2)
Collected Date/Time: 11/17/2014 14:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 9:01	ADB		
Inorganics								
Total Solids	91	%	1	SM2540B	11/18/14 17:40	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/21/14 12:46	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/21/14 12:46	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/21/14 12:46	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/21/14 12:46	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/21/14 12:46	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/21/14 12:46	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/21/14 12:46	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63645.14
Sample Tag: TW-70-101-10(3-5)
Collected Date/Time: 11/17/2014 14:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 9:01	ADB		
Inorganics								
Total Solids	77	%	1	SM2540B	11/18/14 17:40	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/24/14 13:07	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/24/14 13:07	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/24/14 13:07	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/24/14 13:07	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/24/14 13:07	JAN	12672-29-6	
PCB-1254	900	ug/kg	330	SW8082A	11/24/14 13:07	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/24/14 13:07	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63645.15
Sample Tag: TW-70-101-10(7-9)
Collected Date/Time: 11/17/2014 14:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 9:01	ADB		
Inorganics								
Total Solids	75	%	1	SM2540B	11/18/14 17:40	BJB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/21/14 13:17	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/21/14 13:17	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/21/14 13:17	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/21/14 13:17	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/21/14 13:17	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/21/14 13:17	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/21/14 13:17	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63645.16
Sample Tag: DUP-07
Collected Date/Time: 11/17/2014 00:01
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 9:01	ADB		
Inorganics								
Total Solids	82	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/24/14 16:25	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/24/14 16:25	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/24/14 16:25	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/24/14 16:25	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/24/14 16:25	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/24/14 16:25	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/24/14 16:25	JAN	11096-82-5	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

1 of 1

eCOC ID:

Send Results To:

Contact & Company Name:	Telephone:
Erin Kozak; Scott Clearwater, Deb Newcom and Micki Maki	810.225.1901
Address:	**Fax:**
10559 Citation Drive	
City State Zip	**Email**
Brighton, MI	See comments
Project Name/Location (City, State):	**Project #:**
Buick City Site # 1295 Task 00206	B0064410.2014.00206
Sampler's Printed Name:	**Sampler's Signature:**
Angela DeGrandis	

Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic	REMARKS
Preservative						none								
# of Containers / Container Information						1, 4 oz jar per sample								
636045.01 TW-03-03-1(8-10)	11/14/14	1200	X		Soil					X				
.02 TW-03-03-2(8-10)	11/14/14	1040	X		Soil					X				
.03 TW-03-03-3(8-10)	11/14/14	1415	X		Soil					X				
.04 TW-03-03-4(8-10)	11/14/14	1400	X		Soil					X				
.05/.06/.07 TW-70-101-8(0-2)	11/17/14	1635	X		Soil					X				MS/MSD
.08 TW-70-101-8(3-5)	11/17/14	1640	X		Soil					X				
.09 TW-70-101-8(7-9)	11/17/14	1645	X		Soil					X				
.10 TW-70-101-9(0-2)	11/17/14	1530	X		Soil					X				
.11 TW-70-101-9(3-5)	11/17/14	1535	X		Soil					X				
.12 TW-70-101-9(7-9)	11/17/14	1540	X		Soil					X				
.13 TW-70-101-10(0-2)	11/17/14	1400	X		Soil					X				
.14 TW-70-101-10(3-5)	11/17/14	1405	X		Soil					X				
.15 TW-70-101-10(7-9)	11/17/14	1410	X		Soil					X				
~~SB-70-101-11(0-2)~~			~~X~~		~~Soil~~					~~X~~				
~~SB-70-101-11(2-4)~~			~~X~~		~~Soil~~					~~X~~				
~~SB-70-101-12(0-2)~~			~~X~~		~~Soil~~					~~X~~				
~~SB-70-101-12(2-4)~~			~~X~~		~~Soil~~					~~X~~				
.16 DUP-07	11/17/14	—	X		Soil					X				

KEYS

Preservation Key:
A. H_2SO_4
B. HCL
C. NaOH
D. HNO_3
E. None
F.
G.
H.

Container Information Key:
1. 40 mL VOA
2. 1 L Amber
3. 125 mL Plastic
4. 250 mL Plastic
5. 500 mL Plastic
6. 1 L Plastic
7. 2 oz. Glass
8. 4 oz. Glass
9. 8 oz. Glass
10. Other

Matrix Key:
SE = Sediment
S= Solids
Wipe
W = Water
A = Air
NL = NAPL / Oil
T = Tissue
L= Liquid
SW = Surface

Special Instructions/Comments: P.O.No: 126110 - Please email invoices to Christi Kiker (ARCADIS).
email addresses: christi.kiker@arcadis-us.com; erin.kozak@arcadis-us.com
Direct bill to ARCADIS WA836

Special QA/QC Instructions (✓): Level 2 , EDD

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal: ☐ Intact ☐ Not Intact	Printed Name: Angela DeGrandis	Printed Name: Chris Gauthier	Printed Name: Michela Dunkman
☑ Cooler packed with ice (✓)		Signature:	Signature:	Signature: Michela Dunkman
Specify Turnaround Requirements: Standard	Sample Receipt:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Condition/Cooler Temp: 4.8	Date/Time: 11/18/14 1040	Date/Time: 11-18-14 1340	Date/Time: 11/18/14 1410 4.8

Analytical Laboratory Report

Report ID: S63692.01(01)
Generated on 11/26/2014

Report to

Attention: Scott Clearwater
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1921 FAX: 810-229-8837
Email: scott.clearwater@arcadis-us.com

Addtional Contacts: Micki Maki, Erin Kozak, Deb Newcom

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S63692.01-S63692.23
Project: B0064410.2014.00206 / Buick City Site # 1295 Task 00206
Collected Date: 11/18/2014 - 11/19/2014
Submitted Date/Time: 11/20/2014 13:30
Sampled by: Unknown
P.O. #: B0064410.2014.00206



Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 20th Edition
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (23 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63692.01	TW-70-103-12(0-2)	Soil	11/18/2014 13:05
S63692.02	TW-70-103-12(3-5)	Soil	11/18/2014 13:10
S63692.03	TW-70-103-12(7-9)	Soil	11/18/2014 13:15
S63692.04	TW-70-103-13(0-2)	Soil	11/18/2014 11:55
S63692.05	TW-70-103-13(3-3.5)	Soil	11/18/2014 12:00
S63692.06	TW-70-103-13(7-9)	Soil	11/18/2014 12:05
S63692.07	TW-70-103-14(0-2)	Soil	11/18/2014 11:00
S63692.08	TW-70-103-14(3-5)	Soil	11/18/2014 11:05
S63692.09	TW-70-103-14(7-9)	Soil	11/18/2014 11:10
S63692.10	TW-70-103-15(0-2)	Soil	11/19/2014 10:30
S63692.11	TW-70-103-15(3-5)	Soil	11/19/2014 10:35
S63692.12	TW-70-103-15(7-9)	Soil	11/19/2014 10:40
S63692.13	TW-70-103-16(0-2)	Soil	11/19/2014 11:35
S63692.14	TW-70-103-16(3-5)	Soil	11/19/2014 11:40
S63692.15	TW-70-103-16(7-9)	Soil	11/19/2014 11:45
S63692.16	TW-70-103-17(0-2)	Soil	11/19/2014 13:50
S63692.17	TW-70-103-17(3-5)	Soil	11/19/2014 13:55
S63692.18	TW-70-103-17(7-9)	Soil	11/19/2014 14:00
S63692.19	TW-70-107R-12(0-2)	Soil	11/19/2014 15:40
S63692.20	TW-70-107R-12(3-5)	Soil	11/19/2014 15:45
S63692.21	DUP-08(3-5)	Soil	11/19/2014 00:01
S63692.22	TW-70-107R-12(0-2) MS	Soil	11/19/2014 15:50
S63692.23	TW-70-107R-12(0-2) MSD	Soil	11/19/2014 15:50

Analytical Laboratory Report

Lab Sample ID: S63692.01
Sample Tag: TW-70-103-12(0-2)
Collected Date/Time: 11/18/2014 13:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 10:30	RGS		
Inorganics								
Total Solids	94	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/25/14 12:11	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/25/14 12:11	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/25/14 12:11	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/25/14 12:11	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/25/14 12:11	ADB	12672-29-6	
PCB-1254	840	ug/kg	330	SW8082A	11/25/14 12:11	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/25/14 12:11	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63692.02
Sample Tag: TW-70-103-12(3-5)
Collected Date/Time: 11/18/2014 13:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 10:30	RGS		
Inorganics								
Total Solids	84	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/25/14 12:22	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/25/14 12:22	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/25/14 12:22	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/25/14 12:22	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/25/14 12:22	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/25/14 12:22	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/25/14 12:22	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63692.03
Sample Tag: TW-70-103-12(7-9)
Collected Date/Time: 11/18/2014 13:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 10:30	RGS		
Inorganics								
Total Solids	76	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/25/14 13:32	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/25/14 13:32	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/25/14 13:32	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/25/14 13:32	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/25/14 13:32	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/25/14 13:32	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/25/14 13:32	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63692.04
Sample Tag: TW-70-103-13(0-2)
Collected Date/Time: 11/18/2014 11:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 10:30	RGS		
Inorganics								
Total Solids	91	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/25/14 13:45	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/25/14 13:45	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/25/14 13:45	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/25/14 13:45	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/25/14 13:45	ADB	12672-29-6	
PCB-1254	710	ug/kg	330	SW8082A	11/25/14 13:45	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/25/14 13:45	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63692.05
Sample Tag: TW-70-103-13(3-3.5)
Collected Date/Time: 11/18/2014 12:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 10:30	RGS		
Inorganics								
Total Solids	89	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/25/14 14:17	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/25/14 14:17	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/25/14 14:17	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/25/14 14:17	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/25/14 14:17	ADB	12672-29-6	
PCB-1254	800	ug/kg	330	SW8082A	11/25/14 14:17	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/25/14 14:17	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63692.06
Sample Tag: TW-70-103-13(7-9)
Collected Date/Time: 11/18/2014 12:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 10:30	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/25/14 14:28	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/25/14 14:28	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/25/14 14:28	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/25/14 14:28	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/25/14 14:28	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/25/14 14:28	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/25/14 14:28	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63692.07
Sample Tag: TW-70-103-14(0-2)
Collected Date/Time: 11/18/2014 11:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 10:30	RGS		
Inorganics								
Total Solids	94	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/25/14 12:43	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/25/14 12:43	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/25/14 12:43	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/25/14 12:43	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/25/14 12:43	ADB	12672-29-6	
PCB-1254	1,300	ug/kg	330	SW8082A	11/25/14 12:43	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/25/14 12:43	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63692.08
Sample Tag: TW-70-103-14(3-5)
Collected Date/Time: 11/18/2014 11:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 10:30	RGS		
Inorganics								
Total Solids	87	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/25/14 11:43	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/25/14 11:43	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/25/14 11:43	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/25/14 11:43	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/25/14 11:43	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/25/14 11:43	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/25/14 11:43	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63692.09
Sample Tag: TW-70-103-14(7-9)
Collected Date/Time: 11/18/2014 11:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 10:30	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/25/14 14:38	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/25/14 14:38	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/25/14 14:38	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/25/14 14:38	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/25/14 14:38	ADB	12672-29-6	
PCB-1254	310	ug/kg	330	SW8082A	11/25/14 14:38	ADB	11097-69-1	b
PCB-1260	Not detected	ug/kg	330	SW8082A	11/25/14 14:38	ADB	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S63692.10
Sample Tag: TW-70-103-15(0-2)
Collected Date/Time: 11/19/2014 10:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 10:30	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	11/25/14 14:49	ADB	12674-11-2	Y
PCB-1242	5,300	ug/kg	500	SW8082A	11/25/14 14:49	ADB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	11/25/14 14:49	ADB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	11/25/14 14:49	ADB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	11/25/14 14:49	ADB	12672-29-6	Y
PCB-1254	Not detected	ug/kg	500	SW8082A	11/25/14 14:49	ADB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	11/25/14 14:49	ADB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63692.11
Sample Tag: TW-70-103-15(3-5)
Collected Date/Time: 11/19/2014 10:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 10:30	RGS		
Inorganics								
Total Solids	88	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/26/14 11:21	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/26/14 11:21	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/26/14 11:21	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/26/14 11:21	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/26/14 11:21	ADB	12672-29-6	
PCB-1254	720	ug/kg	330	SW8082A	11/26/14 11:21	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/26/14 11:21	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63692.12
Sample Tag: TW-70-103-15(7-9)
Collected Date/Time: 11/19/2014 10:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 10:30	RGS		
Inorganics								
Total Solids	83	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/26/14 11:33	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/26/14 11:33	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/26/14 11:33	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/26/14 11:33	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/26/14 11:33	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/26/14 11:33	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/26/14 11:33	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63692.13
Sample Tag: TW-70-103-16(0-2)
Collected Date/Time: 11/19/2014 11:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/21/14 10:30	RGS		
Inorganics								
Total Solids	90	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	11/26/14 12:15	ADB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	500	SW8082A	11/26/14 12:15	ADB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	11/26/14 12:15	ADB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	11/26/14 12:15	ADB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	11/26/14 12:15	ADB	12672-29-6	Y
PCB-1254	4,800	ug/kg	500	SW8082A	11/26/14 12:15	ADB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	11/26/14 12:15	ADB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63692.14
Sample Tag: TW-70-103-16(3-5)
Collected Date/Time: 11/19/2014 11:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/25/14 08:00	RGS		
Inorganics								
Total Solids	92	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,500	SW8082A	11/26/14 12:02	ADB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	1,500	SW8082A	11/26/14 12:02	ADB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,500	SW8082A	11/26/14 12:02	ADB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,500	SW8082A	11/26/14 12:02	ADB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,500	SW8082A	11/26/14 12:02	ADB	12672-29-6	Y
PCB-1254	7,800	ug/kg	1,500	SW8082A	11/26/14 12:02	ADB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,500	SW8082A	11/26/14 12:02	ADB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63692.15
Sample Tag: TW-70-103-16(7-9)
Collected Date/Time: 11/19/2014 11:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/25/14 08:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	11/26/14 13:32	ADB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	500	SW8082A	11/26/14 13:32	ADB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	11/26/14 13:32	ADB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	11/26/14 13:32	ADB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	11/26/14 13:32	ADB	12672-29-6	Y
PCB-1254	3,100	ug/kg	500	SW8082A	11/26/14 13:32	ADB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	11/26/14 13:32	ADB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63692.16
Sample Tag: TW-70-103-17(0-2)
Collected Date/Time: 11/19/2014 13:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/25/14 08:00	RGS		
Inorganics								
Total Solids	93	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/26/14 12:45	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/26/14 12:45	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/26/14 12:45	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/26/14 12:45	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/26/14 12:45	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/26/14 12:45	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/26/14 12:45	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63692.17
Sample Tag: TW-70-103-17(3-5)
Collected Date/Time: 11/19/2014 13:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/25/14 08:00	RGS		
Inorganics								
Total Solids	80	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/26/14 12:59	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/26/14 12:59	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/26/14 12:59	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/26/14 12:59	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/26/14 12:59	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/26/14 12:59	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/26/14 12:59	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63692.18
Sample Tag: TW-70-103-17(7-9)
Collected Date/Time: 11/19/2014 14:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/25/14 08:00	RGS		
Inorganics								
Total Solids	84	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/26/14 13:20	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/26/14 13:20	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/26/14 13:20	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/26/14 13:20	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/26/14 13:20	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/26/14 13:20	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/26/14 13:20	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63692.19
Sample Tag: TW-70-107R-12(0-2)
Collected Date/Time: 11/19/2014 15:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/25/14 08:00	RGS		
Inorganics								
Total Solids	90	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/25/14 13:18	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/25/14 13:18	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/25/14 13:18	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/25/14 13:18	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/25/14 13:18	JAN	12672-29-6	
PCB-1254	250	ug/kg	330	SW8082A	11/25/14 13:18	JAN	11097-69-1	b
PCB-1260	Not detected	ug/kg	330	SW8082A	11/25/14 13:18	JAN	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S63692.20
Sample Tag: TW-70-107R-12(3-5)
Collected Date/Time: 11/19/2014 15:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/25/14 08:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	11/26/14 13:45	ADB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	500	SW8082A	11/26/14 13:45	ADB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	11/26/14 13:45	ADB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	11/26/14 13:45	ADB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	11/26/14 13:45	ADB	12672-29-6	Y
PCB-1254	4,000	ug/kg	500	SW8082A	11/26/14 13:45	ADB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	11/26/14 13:45	ADB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63692.21
Sample Tag: DUP-08(3-5)
Collected Date/Time: 11/19/2014 00:01
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/25/14 08:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/26/14 13:57	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/26/14 13:57	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/26/14 13:57	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/26/14 13:57	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/26/14 13:57	ADB	12672-29-6	
PCB-1254	2,000	ug/kg	330	SW8082A	11/26/14 13:57	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/26/14 13:57	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63692.22
Sample Tag: TW-70-107R-12(0-2) MS
Collected Date/Time: 11/19/2014 15:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/25/14 08:00	RGS		
Inorganics								
Total Solids	90	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/25/14 13:33	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/25/14 13:33	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/25/14 13:33	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/25/14 13:33	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/25/14 13:33	JAN	12672-29-6	
PCB-1254	280	ug/kg	330	SW8082A	11/25/14 13:33	JAN	11097-69-1	b
PCB-1260	Not detected	ug/kg	330	SW8082A	11/25/14 13:33	JAN	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S63692.23
Sample Tag: TW-70-107R-12(0-2) MSD
Collected Date/Time: 11/19/2014 15:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/25/14 08:00	RGS		
Inorganics								
Total Solids	90	%	1	SM2540B	11/20/14 18:25	ASB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/25/14 13:48	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/25/14 13:48	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/25/14 13:48	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/25/14 13:48	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/25/14 13:48	JAN	12672-29-6	
PCB-1254	270	ug/kg	330	SW8082A	11/25/14 13:48	JAN	11097-69-1	b
PCB-1260	Not detected	ug/kg	330	SW8082A	11/25/14 13:48	JAN	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID:

Send Results To:

Contact & Company Name:	Telephone:
Erin Kozak, Scott Clearwater, Deb Newcom and Micki Maid	810.225.7901
Address:	**Fax:**
10559 Citation Drive	
City / State / Zip	**Email**
Brighton, MI	See comments
Project Name/Location (City, State):	**Project #:**
Buick City Site # 1295 Task 00208	60604410.2014.00208
Sampler's Printed Name:	**Sampler's Signature:**

PARAMETER ANALYSIS & METHOD

Preservative				E				
# of Containers				i				
Container Information				8				

Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic
~~SB-70-101-13(0-2)~~			X		Soil					X			
~~SB-70-101-13(2-4)~~			X		Soil					X			
~~SB-70-101-14(0-2)~~			X		Soil					X			
~~SB-70-101-14(2-4)~~			X		Soil					X			
~~SB-70-101-15(0-2)~~			X		Soil					X			
~~SB-70-101-15(2-4)~~			X		Soil					X			
636692.01 TW-70-103-12(0-2)	11/18/14	1305	X		Soil					X			
.02 TW-70-103-12(3-5)	11/18/14	1310	X		Soil					X			
.03 TW-70-103-12(7-9)	11/18/14	1315	X		Soil					X			
.04 TW-70-103-13(0-2)	11/18/14	1155	X		Soil					X			
.05 TW-70-103-13~~(2-5)~~ (3-3.5)	11/18/14	1200	X		Soil					X			
.06 TW-70-103-13(7-9)	11/18/14	1205	X		Soil					X			
.07 TW-70-103-14(0-2)	11/18/14	1100	X		Soil					X			
.08 TW-70-103-14(3-5)	11/18/14	1105	X		Soil					X			
.09 TW-70-103-14(7-9)	11/18/14	1110	X		Soil					X			
.10 TW-70-103-15(0-2)	11/19	1030	X		Soil					X			
.11 TW-70-103-15(3-5)	↓	1035	X		Soil					X			
.12 TW-70-103-15(7-9)	↓	1040	X		Soil					X			
.13													
.14													

KEYS

Preservation Key:	Container Information Key:
A. H_2SO_4	1. 40 mL VOA
B. HCL	2. 1 L Amber
C. NaOH	3. 125 mL Plastic
D. HNO_3	4. 250 mL Plastic
E. None	5. 500 mL Plastic
F.	6. 1 L Plastic
G.	7. 2 oz. Glass
H.	8. 4 oz. Glass
	9. 8 oz. Glass
	10. Other

Matrix Key:

REMARKS

Special Instructions/Comments: P.O.No: 125110 - Please email invoices to Christi Kiker (ARCADIS), email addresses: christi.kiker@arcadis-us.com; erin.kozak@arcadis-us.com
Direct bill to ARCADIS WA#36

Special QA/QC Instructions (✓): Level 2, EDD

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal: ☐ Intact ☐ Not Intact	Printed Name: James B Ness	Printed Name:	Printed Name: Kevin George
☑ Cooler packed with ice (✓)		Signature:	Signature:	Signature:
Specify Turnaround Requirements: Standard	Sample Receipt:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Condition/Cooler Temp: 5.0	Date/Time: 11/20/14 1330	Date/Time: 11/20/14 1330	Date/Time: 11/20/14 1330 1445

11/20/14

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID:

Send Results To:

Contact & Company Name:	Telephone:
Erin Kozak, Scott Clearwater, Deb Newcom and Micki Maid	810.225.1901
Address:	**Fax:**
10559 Citation Drive	
City / State / Zip	**Email**
Brighton, MI	See comments
Project Name/Location (City, State):	**Project #:**
Buick City Site # 1298 Task 06206	B0064410.2014.06206
Sampler's Printed Name:	**Sampler's Signature:**

Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic
Preservative										E			
# of Containers										1			
Container Information										8			
636092.13 TW-70-103-16(0-2)	11/19	1135	X		Soil					X			
.14 TW-70-103-16(3-5)		1140	X		Soil					X			
.15 TW-70-103-16(7-9)		1145	X		Soil					X			
.16 TW-70-103-17(0-2)		1350	X		Soil					X			
.17 TW-70-103-17(3-5)		1355	X		Soil					X			
.18 TW-70-103-17(7-9)	↓	1400	X		Soil					X			
SB-70-103-18(0-2)			X		Soil					X			
SB-70-103-18(2-4)			X		Soil					X			
SB-70-103-19(0-2)			X		Soil					X			
SB-70-103-19(2-4)			X		Soil					X			
SB-70-103-20(0-2)			X		Soil					X			
SB-70-103-20(2-4)			X		Soil					X			
SB-70-103-21(0-2)			X		Soil					X			
SB-70-103-21(2-4)			X		Soil					X			
.19 TW-70-107R-12(0-2)	11/19	1540	X		Soil					X			
.20 TW-70-107R-12(3-5)	11/19	1545	X		Soil					X			
~~TW-70-107R-12(7-9)~~ Jol	11/19/14	—	~~X~~		~~Soil~~					~~X~~			
.21 DUP-05(3-5)	—	—	X		S					X			
.22/.23 TW-70-107R-12(0-2)MS/MSD		1550	X		S					X			

PARAMETER ANALYSIS & METHOD

KEYS

Preservation Key:	Container Information Key:
A. H_2SO_4	1. 40 mL VOA
B. HCL	2. 1 L Amber
C. NaOH	3. 125 mL Plastic
D. HNO_3	4. 250 mL Plastic
E. None	5. 500 mL Plastic
F.	6. 1 L Plastic
G.	7. 2 oz. Glass
H.	8. 4 oz. Glass
	9. 8 oz. Glass
	10. Other

Matrix Key:

REMARKS

TW-70-107R-12(0-2)
TW-70-107R-12(3-5)
~~TW-70-107R-12(7-9)~~
MS/MSD

Special Instructions/Comments: P.O.No: 126110 - Please email invoices to Christi Kiker (ARCADIS), email addresses: christi.kiker@arcadis-us.com; erin.kozak@arcadis-us.com
Direct bill to ARCADIS WA036

Special QA/QC Instructions (✓): Level 2 , EDD

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal	Printed Name: James Ness	Printed Name:	Printed Name: Kevin George
☑ Cooler packed with ice (✓)	☐ Intact ☐ Not Intact	Signature:	Signature:	Signature: Kevin George
Specify Turnaround Requirements: Standard	Sample Receipt:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Condition/Cooler Temp: 5.0	Date/Time: 11.20.14 1330	Date/Time: 11.20.14 1330	Date/Time: 11/20/14 1330 1445

JKG 11/20/14

Analytical Laboratory Report

Report ID: S63730.01(01)
Generated on 12/04/2014

Report to

Attention: Scott Clearwater
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1921 FAX: 810-229-8837
Email: scott.clearwater@arcadis-us.com

Addtional Contacts: Micki Maki, Erin Kozak

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S63730.01-S63730.06
Project: B0064410.2014.00206 / Buick City Site # 1295 Task 00206
Collected Date: 11/20/2014 - 11/24/2014
Submitted Date/Time: 11/25/2014 14:20
Sampled by: Unknown
P.O. #: B0064410.2014.00206



Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 20th Edition
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8015M	SW 846 Method 8015C Revision 3 February 2007 Modified
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (6 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63730.01	SB-83/84-42(6-8)	Soil	11/20/2014 14:35
S63730.02	SB-70-101-11(0-2)	Soil	11/21/2014 15:30
S63730.03	SB-70-101-11(2-4)	Soil	11/21/2014 15:35
S63730.04	TW-70-107R-11(0-2)	Soil	11/24/2014 10:50
S63730.05	TW-70-107R-11(3-5)	Soil	11/24/2014 10:55
S63730.06	TW-70-107R-11(7-9)	Soil	11/24/2014 11:00

Analytical Laboratory Report

Lab Sample ID: S63730.01
Sample Tag: SB-83/84-42(6-8)
Collected Date/Time: 11/20/2014 14:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			SW3550C	11/26/14 14:27	EMR		
Inorganics								
Total Solids	79	%	1	SM2540B	12/01/14 10:00	WAR		
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	Not detected	ug/kg	4,000	SW8015M	12/01/14 19:34	PL		
TPH ORO (C28-C36)	Not detected	ug/kg	4,000	SW8015M	12/01/14 19:34	PL		
Organics - Volatiles								
TPH GRO (C6-C10)	Not detected	ug/kg	8,000	SW8015M	12/03/14 14:09	JGH		

Analytical Laboratory Report

Lab Sample ID: S63730.02
Sample Tag: SB-70-101-11(0-2)
Collected Date/Time: 11/21/2014 15:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/01/14 10:00	RGS		
Inorganics								
Total Solids	90	%	1	SM2540B	12/01/14 10:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	6,000	SW8082A	12/02/14 12:44	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	6,000	SW8082A	12/02/14 12:44	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	6,000	SW8082A	12/02/14 12:44	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	6,000	SW8082A	12/02/14 12:44	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	6,000	SW8082A	12/02/14 12:44	JAN	12672-29-6	Y
PCB-1254	15,000	ug/kg	6,000	SW8082A	12/02/14 12:44	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	6,000	SW8082A	12/02/14 12:44	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63730.03
Sample Tag: SB-70-101-11(2-4)
Collected Date/Time: 11/21/2014 15:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/01/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	12/01/14 10:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/02/14 12:57	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/02/14 12:57	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/02/14 12:57	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/02/14 12:57	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/02/14 12:57	JAN	12672-29-6	
PCB-1254	2,000	ug/kg	330	SW8082A	12/02/14 12:57	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/02/14 12:57	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63730.04
Sample Tag: TW-70-107R-11(0-2)
Collected Date/Time: 11/24/2014 10:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/01/14 10:00	RGS		
Inorganics								
Total Solids	89	%	1	SM2540B	12/01/14 10:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/02/14 11:58	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/02/14 11:58	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/02/14 11:58	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/02/14 11:58	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/02/14 11:58	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/02/14 11:58	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/02/14 11:58	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63730.05
Sample Tag: TW-70-107R-11(3-5)
Collected Date/Time: 11/24/2014 10:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/01/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	12/01/14 10:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/02/14 13:46	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/02/14 13:46	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/02/14 13:46	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/02/14 13:46	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/02/14 13:46	JAN	12672-29-6	
PCB-1254	1,100	ug/kg	330	SW8082A	12/02/14 13:46	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/02/14 13:46	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63730.06
Sample Tag: TW-70-107R-11(7-9)
Collected Date/Time: 11/24/2014 11:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/01/14 10:00	RGS		
Inorganics								
Total Solids	81	%	1	SM2540B	12/01/14 10:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/02/14 12:12	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/02/14 12:12	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/02/14 12:12	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/02/14 12:12	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/02/14 12:12	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/02/14 12:12	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/02/14 12:12	JAN	11096-82-5	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID:

Send Results To:

Contact & Company Name:	Telephone:
Erin Kozak; Scott Clearwater and Micki Maki	810.225.1901
Address:	**Fax:**
10559 Citation Drive	
City / State / Zip	**Email**
Brighton, MI	See comments
Project Name/Location (City, State):	**Project #:**
Buick City Site # 1295 Task 00206	B0064410.2014.00206
Sampler's Printed Name:	**Sampler's Signature:**

KEYS

Preservation Key / Container Information Key:

A. H_2SO_4	1. 40 mL VOA
B. HCL	2. 1 L Amber
C. NaOH	3. 125 mL Plastic
D. HNO_3	4. 250 mL Plastic
E. None	5. 500 mL Plastic
F.	6. 1 L Plastic
G.	7. 2 oz. Glass
H.	8. 4 oz. Glass
	9. 8 oz. Glass
	10. Other

Matrix Key:

Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	Preservative	# of Containers	Container Information	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic	REMARKS
						E	E		E								
							1		1								
							8		8								
SB-81-13(0-2)			X		Soil												
SB-81-13(2-4)			X		Soil												
SB-81-14(0-2)			X		Soil												
SB-81-14(2-4)			X		Soil												
63730.01 SB-83/84-42(6-8)	11/20	1435	X		Soil				X	X	X						2 4oz Jars
.02 SB-70-101-11(0-2)	11/21	1530	X		Soil								X				
.03 SB-70-101-11(2-4)	11/21	1535	X		Soil								X				
.04 TW-70-107R-11(0-2)	11/24	1050	X		Soil								X				
.05 TW-70-107R-11(3-5)		1055	X		Soil								X				
.06 TW-70_107R-11(7-9)		1100	X		Soil								X				
~~SB-81-16(1-3)~~		~~1215~~	~~X~~		~~Soil~~							~~X~~					
~~SB-81-16(5-7)~~		~~1230~~	X		Soil							~~X~~					~~1050~~
~~SB-81-15(1-3)~~		~~1510~~	X		Soil							~~X~~					
SB-81-15(5-7)		~~1515~~	X		Soil							X					
~~SB-81-15(9-10)~~		~~1520~~	X		Soil							X					JN
SB-81-17(1-3)		1645	X		Soil							X					
~~SB-81-17(5-7)~~		~~1650~~	X		S							X					
SB-81-17(9-11)	↓	1655	X		S							X					112414
TRIP BLANK	—	—	X		S							X					
Dup 09(1-3)	—	—	X		S							X					

PARAMETER ANALYSIS & METHOD

Special Instructions/Comments: P.O.No: 126110 - Please email invoices to Christi Kiker (ARCADIS), email addresses: christi.kiker@arcadis-us.com; erin.kozak@arcadis-us.com
Direct bill to ARCADIS WA036

Special QA/QC Instructions (✓): Level 2, EDD

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal: ☐ Intact ☐ Not Intact	Printed Name: James Nero	Printed Name: Chris Carpenter	Printed Name: Kevin George
☑ Cooler packed with ice (✓)		Signature:	Signature:	Signature:
Specify Turnaround Requirements: Standard	Sample Receipt:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Condition/Cooler Temp: 5.1	Date/Time: 11.25.14 1200	Date/Time: 11/25/14 1200	Date/Time: 11/25/14 1420

Analytical Laboratory Report

Report ID: S63753.01(01)
Generated on 12/03/2014

Report to

Attention: Scott Clearwater
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1921 FAX: 810-229-8837
Email: scott.clearwater@arcadis-us.com

Addtional Contacts: Micki Maki, Erin Kozak, Deb Newcom

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S63753.01-S63753.09
Project: B0064410.2014.00206 / Buick City Site # 1295 Task 00206
Collected Date: 11/25/2014
Submitted Date/Time: 11/26/2014 13:25
Sampled by: James Ness
P.O. #: B0064410.2014.00206



Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
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'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
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QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
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B	Compound also found in associated method blank
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L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
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R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 20th Edition
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (9 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63753.01	TW-83/84-49-9(7-9)	Soil	11/25/2014 13:30
S63753.02	TW-83/84-49-9(9-11)	Soil	11/25/2014 13:35
S63753.03	TW-83/84-49-9(11-13)	Soil	11/25/2014 13:40
S63753.04	TW-83/84-49-8(7-9)	Soil	11/25/2014 14:10
S63753.05	TW-83/84-49-8(9-11)	Soil	11/25/2014 14:15
S63753.06	TW-83/84-49-8(11-13)	Soil	11/25/2014 14:20
S63753.07	DUP-10(9-11)	Soil	11/25/2014 00:01
S63753.08	TW-83/84-49-8(9-11) MS	Soil	11/25/2014 14:25
S63753.09	TW-83/84-49-8(9-11) MSD	Soil	11/25/2014 14:25

Analytical Laboratory Report

Lab Sample ID: S63753.01
Sample Tag: TW-83/84-49-9(7-9)
Collected Date/Time: 11/25/2014 13:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/01/14 10:00	RGS		
Inorganics								
Total Solids	82	%	1	SM2540B	12/01/14 10:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/02/14 19:59	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/02/14 19:59	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/02/14 19:59	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/02/14 19:59	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/02/14 19:59	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/02/14 19:59	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/02/14 19:59	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63753.02
Sample Tag: TW-83/84-49-9(9-11)
Collected Date/Time: 11/25/2014 13:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/01/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	12/01/14 10:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/02/14 19:48	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/02/14 19:48	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/02/14 19:48	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/02/14 19:48	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/02/14 19:48	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/02/14 19:48	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/02/14 19:48	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63753.03
Sample Tag: TW-83/84-49-9(11-13)
Collected Date/Time: 11/25/2014 13:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/01/14 10:00	RGS		
Inorganics								
Total Solids	82	%	1	SM2540B	12/01/14 10:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/03/14 11:34	ADB	12674-11-2	
PCB-1242	440	ug/kg	330	SW8082A	12/03/14 11:34	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/03/14 11:34	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/03/14 11:34	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/03/14 11:34	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/03/14 11:34	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/03/14 11:34	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63753.04
Sample Tag: TW-83/84-49-8(7-9)
Collected Date/Time: 11/25/2014 14:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/01/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	SM2540B	12/01/14 10:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/03/14 11:23	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/03/14 11:23	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/03/14 11:23	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/03/14 11:23	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/03/14 11:23	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/03/14 11:23	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/03/14 11:23	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63753.05
Sample Tag: TW-83/84-49-8(9-11)
Collected Date/Time: 11/25/2014 14:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/03/14 10:00	RGS		
Inorganics								
Total Solids	82	%	1	SM2540B	12/01/14 10:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/03/14 11:46	ADB	12674-11-2	
PCB-1242	50	ug/kg	330	SW8082A	12/03/14 11:46	ADB	53469-21-9	b
PCB-1221	Not detected	ug/kg	330	SW8082A	12/03/14 11:46	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/03/14 11:46	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/03/14 11:46	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/03/14 11:46	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/03/14 11:46	ADB	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S63753.06
Sample Tag: TW-83/84-49-8(11-13)
Collected Date/Time: 11/25/2014 14:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/03/14 10:00	RGS		
Inorganics								
Total Solids	81	%	1	SM2540B	12/01/14 10:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/03/14 15:13	JAN	12674-11-2	
PCB-1242	600	ug/kg	330	SW8082A	12/03/14 15:13	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/03/14 15:13	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/03/14 15:13	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/03/14 15:13	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/03/14 15:13	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/03/14 15:13	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63753.07
Sample Tag: DUP-10(9-11)
Collected Date/Time: 11/25/2014 00:01
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/03/14 10:00	RGS		
Inorganics								
Total Solids	88	%	1	SM2540B	12/01/14 10:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/03/14 14:21	JAN	12674-11-2	
PCB-1242	400	ug/kg	330	SW8082A	12/03/14 14:21	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/03/14 14:21	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/03/14 14:21	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/03/14 14:21	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/03/14 14:21	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/03/14 14:21	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63753.08
Sample Tag: TW-83/84-49-8(9-11) MS
Collected Date/Time: 11/25/2014 14:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/03/14 10:00	RGS		
Inorganics								
Total Solids	87	%	1	SM2540B	12/01/14 10:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/03/14 14:39	JAN	12674-11-2	
PCB-1242	200	ug/kg	330	SW8082A	12/03/14 14:39	JAN	53469-21-9	b
PCB-1221	Not detected	ug/kg	330	SW8082A	12/03/14 14:39	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/03/14 14:39	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/03/14 14:39	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/03/14 14:39	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/03/14 14:39	JAN	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S63753.09
Sample Tag: TW-83/84-49-8(9-11) MSD
Collected Date/Time: 11/25/2014 14:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/03/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	12/01/14 10:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/03/14 13:40	JAN	12674-11-2	
PCB-1242	200	ug/kg	330	SW8082A	12/03/14 13:40	JAN	53469-21-9	b
PCB-1221	Not detected	ug/kg	330	SW8082A	12/03/14 13:40	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/03/14 13:40	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/03/14 13:40	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/03/14 13:40	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/03/14 13:40	JAN	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID:

Project Contact Information		
Contact & Company Name:	Telephone:	
Address:	Fax:	
City / State / Zip	Email	See comments
Project Name/Location (City, State):	Project #:	
Sampler's Printed Name:	Sampler's Signature:	

Preservative				E				
No. Containers				1				
Filtered				N				

PARAMETER ANALYSIS & METHOD

Sample ID	Date	Time	Comp	Grab	Matrix	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic	REMARKS
63753.01 TW-83/84-49-9 (7-9)	11/25	1330		X	S					X				
.02 TW-83/84-49-9 (9-11)		1335		X						X				
.03 TW-83/84-49-9 (11-13)		1340		X						X				
.04 TW-83/84-49-8 (7-9)		1410		X						X				
.05 TW-83/84-49-8 (9-11)		1415		X						X				
.06 TW-83/84-49-8 (11-13)		1420		X						X				
.07 DUP-10 (9-11)	—	—		X						X				
.08/.09 TW-83/84-49-8 (9-11) MS/MSD	11/25	1425		X						X				MS/MSD

Laboratory Information and Remarks	Relinquished By	Received By	Received By
Lab Name: Merit	Printed Name:	Printed Name: Tim Glass	Printed Name: Kevin George
☑ Cooler packed with ice (✓)	Signature:	Signature:	Signature: Kevin George
Specify Turnaround Requirements:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Date/Time: 11/25/14 1745	Date/Time: 11/26/14 1035	Date/Time: 11/26/14 1325

Tim Glass Merit

Analytical Laboratory Report

Report ID: S63870.01(01)
Generated on 12/11/2014

Report to

Attention: Scott Clearwater
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1921 FAX: 810-229-8837
Email: scott.clearwater@arcadis-us.com

Addtional Contacts: Micki Maki, Erin Kozak, Deb Newcom

Report produced by

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Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S63870.01-S63870.33
Project: B0064410.2014.00206 / Buick City Site # 1295 Task 00206
Collected Date: 12/03/2014 - 12/04/2014
Submitted Date/Time: 12/05/2014 15:00
Sampled by: Angela DeGrandis
P.O. #: B0064410.2014.00206



Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 20th Edition
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (33 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63870.01	SB-86-01(0-2)	Soil	12/03/2014 10:35
S63870.02	SB-86-01(5-7)	Soil	12/03/2014 10:40
S63870.03	SB-86-02(0-2)	Soil	12/03/2014 10:15
S63870.04	SB-86-02(5-7)	Soil	12/03/2014 10:20
S63870.05	SB-86-03(0-2)	Soil	12/03/2014 09:55
S63870.06	SB-86-03(6-8)	Soil	12/03/2014 10:00
S63870.07	SB-86-04(0-2)	Soil	12/03/2014 09:30
S63870.08	SB-86-04(6.5-8.5)	Soil	12/03/2014 09:35
S63870.09	SB-86-05(0-2)	Soil	12/03/2014 11:35
S63870.10	SB-86-05(4-6)	Soil	12/03/2014 11:40
S63870.11	SB-86-06(10-12)	Soil	12/03/2014 14:50
S63870.12	SB-86-06(10-12) MS	Soil	12/03/2014 14:50
S63870.13	SB-86-06(10-12) MSD	Soil	12/03/2014 14:50
S63870.14	SB-86-07(5-7)	Soil	12/03/2014 14:10
S63870.15	SB-86-08(6-8)	Soil	12/03/2014 13:15
S63870.16	SB-86-09(7-9)	Soil	12/03/2014 15:10
S63870.17	SB-86-10(4-6)	Soil	12/04/2014 11:50
S63870.18	SB-86-10(8.5-10.5)	Soil	12/04/2014 11:55
S63870.19	SB-86-10(10.5-12.5)	Soil	12/04/2014 12:00
S63870.20	DUP-11	Soil	12/03/2014 00:01
S63870.21	SB-86-11(4-6)	Soil	12/04/2014 11:25
S63870.22	SB-86-11(8.5-10.5)	Soil	12/04/2014 11:30
S63870.23	SB-86-11(10.5-12.5)	Soil	12/04/2014 11:35
S63870.24	SB-86-12(1-3)	Soil	12/04/2014 09:45
S63870.25	SB-86-12(3-5)	Soil	12/04/2014 09:50
S63870.26	SB-86-13(1-3)	Soil	12/04/2014 09:55
S63870.27	SB-86-13(3-5)	Soil	12/04/2014 10:00
S63870.28	SB-86-14(1-3)	Soil	12/04/2014 10:25
S63870.29	SB-86-14(3-5)	Soil	12/04/2014 10:30
S63870.30	SB-86-15(1-3)	Soil	12/04/2014 10:35
S63870.31	SB-86-15(3-5)	Soil	12/04/2014 10:40
S63870.32	SB-86-16(1-3)	Soil	12/04/2014 10:45
S63870.33	SB-86-16(3-5)	Soil	12/04/2014 10:50

Analytical Laboratory Report

Lab Sample ID: S63870.01
Sample Tag: SB-86-01(0-2)
Collected Date/Time: 12/03/2014 10:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 18:54	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 18:54	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 18:54	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 18:54	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 18:54	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 18:54	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 18:54	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.02
Sample Tag: SB-86-01(5-7)
Collected Date/Time: 12/03/2014 10:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	83	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 19:04	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 19:04	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 19:04	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 19:04	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 19:04	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 19:04	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 19:04	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.03
Sample Tag: SB-86-02(0-2)
Collected Date/Time: 12/03/2014 10:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 19:15	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 19:15	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 19:15	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 19:15	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 19:15	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 19:15	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 19:15	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.04
Sample Tag: SB-86-02(5-7)
Collected Date/Time: 12/03/2014 10:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	93	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 19:25	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 19:25	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 19:25	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 19:25	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 19:25	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 19:25	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 19:25	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.05
Sample Tag: SB-86-03(0-2)
Collected Date/Time: 12/03/2014 09:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 19:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 19:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 19:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 19:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 19:36	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 19:36	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 19:36	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.06
Sample Tag: SB-86-03(6-8)
Collected Date/Time: 12/03/2014 10:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	90	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 19:47	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 19:47	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 19:47	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 19:47	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 19:47	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 19:47	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 19:47	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.07
Sample Tag: SB-86-04(0-2)
Collected Date/Time: 12/03/2014 09:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 19:57	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 19:57	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 19:57	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 19:57	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 19:57	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 19:57	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 19:57	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.08
Sample Tag: SB-86-04(6.5-8.5)
Collected Date/Time: 12/03/2014 09:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	91	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 20:08	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 20:08	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 20:08	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 20:08	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 20:08	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 20:08	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 20:08	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.09
Sample Tag: SB-86-05(0-2)
Collected Date/Time: 12/03/2014 11:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	87	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 20:18	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 20:18	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 20:18	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 20:18	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 20:18	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 20:18	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 20:18	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.10
Sample Tag: SB-86-05(4-6)
Collected Date/Time: 12/03/2014 11:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	78	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 20:29	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 20:29	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 20:29	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 20:29	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 20:29	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 20:29	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 20:29	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.11
Sample Tag: SB-86-06(10-12)
Collected Date/Time: 12/03/2014 14:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	83	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 13:30	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 13:30	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 13:30	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 13:30	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 13:30	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 13:30	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 13:30	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.12
Sample Tag: SB-86-06(10-12) MS
Collected Date/Time: 12/03/2014 14:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	82	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	30	ug/kg	330	SW8082A	12/09/14 14:01	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 14:01	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 14:01	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 14:01	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 14:01	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 14:01	JAN	11097-69-1	
PCB-1260	30	ug/kg	330	SW8082A	12/09/14 14:01	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.13
Sample Tag: SB-86-06(10-12) MSD
Collected Date/Time: 12/03/2014 14:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	76	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	30	ug/kg	330	SW8082A	12/09/14 14:15	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 14:15	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 14:15	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 14:15	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 14:15	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 14:15	JAN	11097-69-1	
PCB-1260	30	ug/kg	330	SW8082A	12/09/14 14:15	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.14
Sample Tag: SB-86-07(5-7)
Collected Date/Time: 12/03/2014 14:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	88	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 20:40	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 20:40	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 20:40	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 20:40	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 20:40	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 20:40	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 20:40	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.15
Sample Tag: SB-86-08(6-8)
Collected Date/Time: 12/03/2014 13:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 20:50	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 20:50	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 20:50	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 20:50	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 20:50	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 20:50	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 20:50	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.16
Sample Tag: SB-86-09(7-9)
Collected Date/Time: 12/03/2014 15:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	82	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 21:01	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 21:01	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 21:01	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 21:01	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 21:01	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 21:01	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 21:01	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.17
Sample Tag: SB-86-10(4-6)
Collected Date/Time: 12/04/2014 11:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	96	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Manganese	80.6	mg/kg	0.50	SW6020A	12/11/14 09:56	PER	7439-96-5	

Analytical Laboratory Report

Lab Sample ID: S63870.18
Sample Tag: SB-86-10(8.5-10.5)
Collected Date/Time: 12/04/2014 11:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	89	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Manganese	449	mg/kg	0.50	SW6020A	12/11/14 10:00	PER	7439-96-5	

Analytical Laboratory Report

Lab Sample ID: S63870.19
Sample Tag: SB-86-10(10.5-12.5)
Collected Date/Time: 12/04/2014 12:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	82	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Manganese	317	mg/kg	0.50	SW6020A	12/11/14 10:01	PER	7439-96-5	

Analytical Laboratory Report

Lab Sample ID: S63870.20
Sample Tag: DUP-11
Collected Date/Time: 12/03/2014 00:01
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 21:11	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 21:11	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 21:11	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 21:11	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 21:11	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 21:11	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 21:11	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.21
Sample Tag: SB-86-11(4-6)
Collected Date/Time: 12/04/2014 11:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	86	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Manganese	42.0	mg/kg	0.50	SW6020A	12/11/14 10:04	PER	7439-96-5	

Analytical Laboratory Report

Lab Sample ID: S63870.22
Sample Tag: SB-86-11(8.5-10.5)
Collected Date/Time: 12/04/2014 11:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	81	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Manganese	123	mg/kg	0.50	SW6020A	12/11/14 10:05	PER	7439-96-5	

Analytical Laboratory Report

Lab Sample ID: S63870.23
Sample Tag: SB-86-11(10.5-12.5)
Collected Date/Time: 12/04/2014 11:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	80	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Manganese	67.4	mg/kg	0.50	SW6020A	12/11/14 10:06	PER	7439-96-5	

Analytical Laboratory Report

Lab Sample ID: S63870.24
Sample Tag: SB-86-12(1-3)
Collected Date/Time: 12/04/2014 09:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	92	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Arsenic	36.2	mg/kg	0.20	SW6020A	12/11/14 10:10	PER	7440-38-2	

Analytical Laboratory Report

Lab Sample ID: S63870.25
Sample Tag: SB-86-12(3-5)
Collected Date/Time: 12/04/2014 09:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	88	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Arsenic	1.17	mg/kg	0.20	SW6020A	12/11/14 10:11	PER	7440-38-2	

Analytical Laboratory Report

Lab Sample ID: S63870.26
Sample Tag: SB-86-13(1-3)
Collected Date/Time: 12/04/2014 09:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	87	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Arsenic	1.15	mg/kg	0.20	SW6020A	12/11/14 10:12	PER	7440-38-2	

Analytical Laboratory Report

Lab Sample ID: S63870.27
Sample Tag: SB-86-13(3-5)
Collected Date/Time: 12/04/2014 10:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	91	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Arsenic	0.97	mg/kg	0.20	SW6020A	12/11/14 10:13	PER	7440-38-2	

Analytical Laboratory Report

Lab Sample ID: S63870.28
Sample Tag: SB-86-14(1-3)
Collected Date/Time: 12/04/2014 10:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	91	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Arsenic	3.59	mg/kg	0.20	SW6020A	12/11/14 10:15	PER	7440-38-2	

Analytical Laboratory Report

Lab Sample ID: S63870.29
Sample Tag: SB-86-14(3-5)
Collected Date/Time: 12/04/2014 10:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	91	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Arsenic	1.31	mg/kg	0.20	SW6020A	12/11/14 10:16	PER	7440-38-2	

Analytical Laboratory Report

Lab Sample ID: S63870.30
Sample Tag: SB-86-15(1-3)
Collected Date/Time: 12/04/2014 10:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	94	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 21:23	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 21:23	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 21:23	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 21:23	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 21:23	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 21:23	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 21:23	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.31
Sample Tag: SB-86-15(3-5)
Collected Date/Time: 12/04/2014 10:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	94	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 21:33	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 21:33	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 21:33	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 21:33	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 21:33	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 21:33	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 21:33	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.32
Sample Tag: SB-86-16(1-3)
Collected Date/Time: 12/04/2014 10:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	96	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 21:43	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 21:43	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 21:43	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 21:43	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 21:43	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 21:43	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 21:43	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63870.33
Sample Tag: SB-86-16(3-5)
Collected Date/Time: 12/04/2014 10:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 21:54	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 21:54	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 21:54	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 21:54	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 21:54	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 21:54	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 21:54	JAN	11096-82-5	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID:

Report To / Invoice To	
Contact & Company Name:	Telephone:
Address:	Fax:
City State Zip	Email: See comments
Project Name/Location (City, State):	Project #:
Sampler's Printed Name:	Sampler's Signature:

	Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic		REMARKS
63870							PARAMETER ANALYSIS & METHOD									
.01	SB-86-01(0-2)	12/3/14	1035	X		Soil					X					
.02	SB-86-01(5-7)	12/3/14	1040	X		Soil					X					
.03	SB-86-02(0-2)	12/3/14	1015	X		Soil					X					
.04	SB-86-02(5-7)	12/3/14	1020	X		Soil					X					
.05	SB-86-03(0-2)	12/3/14	0955	X		Soil					X					
.06	SB-86-03(6-8)	12/3/14	1000	X		Soil					X					
.07	SB-86-04(0-2)	12/3/14	0930	X		Soil					X					
.08	SB-86-04(6.5-8.5)	12/3/14	0935	X		Soil					X					
.09	SB-86-05(0-2)	12/3/14	1135	X		Soil					X					
.10	SB-86-05(4-6)	12/3/14	1140	X		Soil					X					
.11/.12/.13	SB-86-06(10-12)	12/3/14	1450	X		Soil					X					MS/MSD
.14	SB-86-07(5-7)	12/3/14	1410	X		Soil					X					
.15	SB-86-08(6-8)	12/3/14	1315	X		Soil					X					
.16	SB-86-09(7-9)	12/3/14	1510	X		Soil					X					
.17	SB-86-10(4-6)	12/4/14	1130	X		Soil							X			
.18	SB-86-10(8.5-10.5)	12/4/14	1155	X		Soil							X			
.19	SB-86-10(10.5-12.5)	12/4/14	1200	X		Soil							X			
.20	DUP-11	12/3/14	—	X		Soil					X					

Preservation Key / Container Information Key

	Container
A. H_2SO_4	1. 40 mL VOA
B. HCl	2. 1 L Amber
C. NaOH	3. 125 mL Plastic
D. HNO_3	4. 250 mL Plastic
E. None	5. 500 mL Plastic
F.	6. 1 L Plastic
G.	7. 2 oz. Glass

Laboratory Information	Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Printed Name:	Printed Name: Chris Gotthelf	Printed Name: Michela Dunkman
☑ Cooler packed with ice (✓)	Signature:	Signature:	Signature:
Specify Turnaround Requirements:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Date/Time: 12/5/14 1350	Date/Time: 12-5-14 1350	Date/Time: 12/05/14 1500 5.1

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID:

Contact & Company Name:	Telephone:
Address:	Fax:
City State Zip	Email: See comments
Project Name/Location (City, State):	Project #:
Sampler's Printed Name:	Sampler's Signature:

693870 Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic		REMARKS
.21 SB-86-11(4-6)	12/4/14	1125	X		Soil							X			
.22 SB-86-11(8.5-10.5)	12/4/14	1130	X		Soil							X			
.23 SB-86-11(10.5-12.5)	12/4/14	1135	X		Soil							X			
.24 SB-86-12(1-3)	12/4/14	0945	X		Soil								X		
.25 SB-86-12(3-5)	12/4/14	0950	X		Soil								X		
.26 SB-86-13(1-3)	12/4/14	0955	X		Soil					-X-			X		arsenic only
.27 SB-86-13(3-5)	12/4/14	1000	X		Soil					-X-			X		
.28 SB-86-14(1-3)	12/4/14	1025	X		Soil					-X-			X		
.29 SB-86-14(3-5)	12/4/14	1030	X		Soil					-X-			X		
.30 SB-86-15(1-3)	12/4/14	1035	X		Soil					X					
.31 SB-86-15(3-5)	12/4/14	1040	X		Soil					X					
.32 SB-86-16(1-3)	12/4/14	1045	X		Soil					X					
.33 SB-86-16(3-5)	12/4/14	1050	X		Soil					X					

PARAMETER ANALYSIS & METHOD

Preservation Key:	
Containers/Preservation Key:	
A. H_2SO_4	1, 40 mL
VOA	
B. HCl	2, 1 L
Amber	
C. NaOH	3, 125
mL Plastic	
D. HNO_3	4, 250
mL Plastic	
E. None	5, 500
mL Plastic	

Lab Name: Merit	Relinquished By	Received By	Relinquished By
☑ Cooler packed with ice (✓)	Printed Name:	Printed Name: Chris Gautreau	Printed Name: Michelle Dunkman
Specify Turnaround Requirements:	Signature:	Signature:	Signature:
Fed-Ex Tracking #:	Firm: ARCADIS	Firm: Merit	Firm: Merit
	Date/Time: 12/5/14 1350	Date/Time: 12-5-14 1350	Date/Time: 12/05/14 1500

Analytical Laboratory Report

Supplemental Report

Report ID: S63870.01(02)
Generated on 01/26/2015
Replaces report S63870.01(01) generated on 12/11/2014

Report to

Attention: Scott Clearwater
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1921 FAX: 810-229-8837
Email: scott.clearwater@arcadis-us.com

Addtional Contacts: Micki Maki, Erin Kozak, Deb Newcom

Report produced by

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2680 East Lansing Drive
East Lansing, MI 48823

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Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S63870.01-S63870.33
Project: B0064410.2014.00206 / Buick City Site # 1295 Task 00206
Collected Date: 12/03/2014 - 12/04/2014
Submitted Date/Time: 12/05/2014 15:00
Sampled by: Angela DeGrandis
P.O. #: B0064410.2014.00206

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Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

PCBs added to .26-.29 per client request.

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 20th Edition
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (33 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63870.01	SB-86-01(0-2)	Soil	12/03/2014 10:35
S63870.02	SB-86-01(5-7)	Soil	12/03/2014 10:40
S63870.03	SB-86-02(0-2)	Soil	12/03/2014 10:15
S63870.04	SB-86-02(5-7)	Soil	12/03/2014 10:20
S63870.05	SB-86-03(0-2)	Soil	12/03/2014 09:55
S63870.06	SB-86-03(6-8)	Soil	12/03/2014 10:00
S63870.07	SB-86-04(0-2)	Soil	12/03/2014 09:30
S63870.08	SB-86-04(6.5-8.5)	Soil	12/03/2014 09:35
S63870.09	SB-86-05(0-2)	Soil	12/03/2014 11:35
S63870.10	SB-86-05(4-6)	Soil	12/03/2014 11:40
S63870.11	SB-86-06(10-12)	Soil	12/03/2014 14:50
S63870.12	SB-86-06(10-12) MS	Soil	12/03/2014 14:50
S63870.13	SB-86-06(10-12) MSD	Soil	12/03/2014 14:50
S63870.14	SB-86-07(5-7)	Soil	12/03/2014 14:10
S63870.15	SB-86-08(6-8)	Soil	12/03/2014 13:15
S63870.16	SB-86-09(7-9)	Soil	12/03/2014 15:10
S63870.17	SB-86-10(4-6)	Soil	12/04/2014 11:50
S63870.18	SB-86-10(8.5-10.5)	Soil	12/04/2014 11:55
S63870.19	SB-86-10(10.5-12.5)	Soil	12/04/2014 12:00
S63870.20	DUP-11	Soil	12/03/2014 00:01
S63870.21	SB-86-11(4-6)	Soil	12/04/2014 11:25
S63870.22	SB-86-11(8.5-10.5)	Soil	12/04/2014 11:30
S63870.23	SB-86-11(10.5-12.5)	Soil	12/04/2014 11:35
S63870.24	SB-86-12(1-3)	Soil	12/04/2014 09:45
S63870.25	SB-86-12(3-5)	Soil	12/04/2014 09:50
S63870.26	SB-86-13(1-3)	Soil	12/04/2014 09:55
S63870.27	SB-86-13(3-5)	Soil	12/04/2014 10:00
S63870.28	SB-86-14(1-3)	Soil	12/04/2014 10:25
S63870.29	SB-86-14(3-5)	Soil	12/04/2014 10:30
S63870.30	SB-86-15(1-3)	Soil	12/04/2014 10:35
S63870.31	SB-86-15(3-5)	Soil	12/04/2014 10:40
S63870.32	SB-86-16(1-3)	Soil	12/04/2014 10:45
S63870.33	SB-86-16(3-5)	Soil	12/04/2014 10:50

Lab Sample ID: S63870.01
Sample Tag: SB-86-01(0-2)
Collected Date/Time: 12/03/2014 10:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 18:54	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 18:54	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 18:54	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 18:54	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 18:54	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 18:54	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 18:54	JAN	11096-82-5	

Lab Sample ID: S63870.02
Sample Tag: SB-86-01(5-7)
Collected Date/Time: 12/03/2014 10:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	83	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 19:04	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 19:04	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 19:04	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 19:04	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 19:04	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 19:04	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 19:04	JAN	11096-82-5	

Lab Sample ID: S63870.03
Sample Tag: SB-86-02(0-2)
Collected Date/Time: 12/03/2014 10:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 19:15	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 19:15	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 19:15	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 19:15	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 19:15	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 19:15	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 19:15	JAN	11096-82-5	

Lab Sample ID: S63870.04
Sample Tag: SB-86-02(5-7)
Collected Date/Time: 12/03/2014 10:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	93	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 19:25	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 19:25	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 19:25	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 19:25	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 19:25	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 19:25	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 19:25	JAN	11096-82-5	

Lab Sample ID: S63870.05
Sample Tag: SB-86-03(0-2)
Collected Date/Time: 12/03/2014 09:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 19:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 19:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 19:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 19:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 19:36	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 19:36	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 19:36	JAN	11096-82-5	

Lab Sample ID: S63870.06
Sample Tag: SB-86-03(6-8)
Collected Date/Time: 12/03/2014 10:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	90	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 19:47	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 19:47	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 19:47	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 19:47	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 19:47	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 19:47	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 19:47	JAN	11096-82-5	

Lab Sample ID: S63870.07
Sample Tag: SB-86-04(0-2)
Collected Date/Time: 12/03/2014 09:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 19:57	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 19:57	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 19:57	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 19:57	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 19:57	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 19:57	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 19:57	JAN	11096-82-5	

Lab Sample ID: S63870.08
Sample Tag: SB-86-04(6.5-8.5)
Collected Date/Time: 12/03/2014 09:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	91	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 20:08	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 20:08	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 20:08	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 20:08	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 20:08	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 20:08	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 20:08	JAN	11096-82-5	

Lab Sample ID: S63870.09
Sample Tag: SB-86-05(0-2)
Collected Date/Time: 12/03/2014 11:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	87	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 20:18	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 20:18	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 20:18	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 20:18	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 20:18	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 20:18	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 20:18	JAN	11096-82-5	

Lab Sample ID: S63870.10
Sample Tag: SB-86-05(4-6)
Collected Date/Time: 12/03/2014 11:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	78	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 20:29	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 20:29	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 20:29	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 20:29	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 20:29	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 20:29	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 20:29	JAN	11096-82-5	

Lab Sample ID: S63870.11
Sample Tag: SB-86-06(10-12)
Collected Date/Time: 12/03/2014 14:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	83	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 13:30	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 13:30	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 13:30	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 13:30	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 13:30	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 13:30	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 13:30	JAN	11096-82-5	

Lab Sample ID: S63870.12
Sample Tag: SB-86-06(10-12) MS
Collected Date/Time: 12/03/2014 14:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	82	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	30	ug/kg	330	SW8082A	12/09/14 14:01	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 14:01	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 14:01	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 14:01	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 14:01	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 14:01	JAN	11097-69-1	
PCB-1260	30	ug/kg	330	SW8082A	12/09/14 14:01	JAN	11096-82-5	

Lab Sample ID: S63870.13
Sample Tag: SB-86-06(10-12) MSD
Collected Date/Time: 12/03/2014 14:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	76	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	30	ug/kg	330	SW8082A	12/09/14 14:15	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 14:15	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 14:15	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 14:15	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 14:15	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 14:15	JAN	11097-69-1	
PCB-1260	30	ug/kg	330	SW8082A	12/09/14 14:15	JAN	11096-82-5	

Lab Sample ID: S63870.14
Sample Tag: SB-86-07(5-7)
Collected Date/Time: 12/03/2014 14:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	88	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 20:40	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 20:40	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 20:40	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 20:40	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 20:40	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 20:40	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 20:40	JAN	11096-82-5	

Lab Sample ID: S63870.15
Sample Tag: SB-86-08(6-8)
Collected Date/Time: 12/03/2014 13:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 20:50	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 20:50	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 20:50	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 20:50	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 20:50	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 20:50	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 20:50	JAN	11096-82-5	

Lab Sample ID: S63870.16
Sample Tag: SB-86-09(7-9)
Collected Date/Time: 12/03/2014 15:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	82	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 21:01	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 21:01	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 21:01	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 21:01	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 21:01	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 21:01	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 21:01	JAN	11096-82-5	

Lab Sample ID: S63870.17
Sample Tag: SB-86-10(4-6)
Collected Date/Time: 12/04/2014 11:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	96	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Manganese	80.6	mg/kg	0.50	SW6020A	12/11/14 09:56	PER	7439-96-5	

Lab Sample ID: S63870.18
Sample Tag: SB-86-10(8.5-10.5)
Collected Date/Time: 12/04/2014 11:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	89	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Manganese	449	mg/kg	0.50	SW6020A	12/11/14 10:00	PER	7439-96-5	

Lab Sample ID: S63870.19
Sample Tag: SB-86-10(10.5-12.5)
Collected Date/Time: 12/04/2014 12:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	82	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Manganese	317	mg/kg	0.50	SW6020A	12/11/14 10:01	PER	7439-96-5	

Lab Sample ID: S63870.20
Sample Tag: DUP-11
Collected Date/Time: 12/03/2014 00:01
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 21:11	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 21:11	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 21:11	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 21:11	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 21:11	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 21:11	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 21:11	JAN	11096-82-5	

Lab Sample ID: S63870.21
Sample Tag: SB-86-11(4-6)
Collected Date/Time: 12/04/2014 11:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	86	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Manganese	42.0	mg/kg	0.50	SW6020A	12/11/14 10:04	PER	7439-96-5	

Lab Sample ID: S63870.22
Sample Tag: SB-86-11(8.5-10.5)
Collected Date/Time: 12/04/2014 11:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	81	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Manganese	123	mg/kg	0.50	SW6020A	12/11/14 10:05	PER	7439-96-5	

Lab Sample ID: S63870.23
Sample Tag: SB-86-11(10.5-12.5)
Collected Date/Time: 12/04/2014 11:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	80	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Manganese	67.4	mg/kg	0.50	SW6020A	12/11/14 10:06	PER	7439-96-5	

Lab Sample ID: S63870.24
Sample Tag: SB-86-12(1-3)
Collected Date/Time: 12/04/2014 09:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	92	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Arsenic	36.2	mg/kg	0.20	SW6020A	12/11/14 10:10	PER	7440-38-2	

Lab Sample ID: S63870.25
Sample Tag: SB-86-12(3-5)
Collected Date/Time: 12/04/2014 09:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	88	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Arsenic	1.17	mg/kg	0.20	SW6020A	12/11/14 10:11	PER	7440-38-2	

Lab Sample ID: S63870.26
Sample Tag: SB-86-13(1-3)
Collected Date/Time: 12/04/2014 09:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/26/15 10:00	RGS		F
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	87	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Arsenic	1.15	mg/kg	0.20	SW6020A	12/11/14 10:12	PER	7440-38-2	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/26/15 13:20	JAN	12674-11-2	G
PCB-1242	Not detected	ug/kg	330	SW8082A	01/26/15 13:20	JAN	53469-21-9	G
PCB-1221	Not detected	ug/kg	330	SW8082A	01/26/15 13:20	JAN	11104-28-2	G
PCB-1232	Not detected	ug/kg	330	SW8082A	01/26/15 13:20	JAN	11141-16-5	G
PCB-1248	Not detected	ug/kg	330	SW8082A	01/26/15 13:20	JAN	12672-29-6	G
PCB-1254	Not detected	ug/kg	330	SW8082A	01/26/15 13:20	JAN	11097-69-1	G
PCB-1260	Not detected	ug/kg	330	SW8082A	01/26/15 13:20	JAN	11096-82-5	G

F-Analysis run outside of holding time
G-Estimated result due to extraction run outside of holding time

Lab Sample ID: S63870.27
Sample Tag: SB-86-13(3-5)
Collected Date/Time: 12/04/2014 10:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/26/15 10:00	RGS		F
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	91	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Arsenic	0.97	mg/kg	0.20	SW6020A	12/11/14 10:13	PER	7440-38-2	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/26/15 13:31	JAN	12674-11-2	G
PCB-1242	Not detected	ug/kg	330	SW8082A	01/26/15 13:31	JAN	53469-21-9	G
PCB-1221	Not detected	ug/kg	330	SW8082A	01/26/15 13:31	JAN	11104-28-2	G
PCB-1232	Not detected	ug/kg	330	SW8082A	01/26/15 13:31	JAN	11141-16-5	G
PCB-1248	Not detected	ug/kg	330	SW8082A	01/26/15 13:31	JAN	12672-29-6	G
PCB-1254	Not detected	ug/kg	330	SW8082A	01/26/15 13:31	JAN	11097-69-1	G
PCB-1260	Not detected	ug/kg	330	SW8082A	01/26/15 13:31	JAN	11096-82-5	G

F-Analysis run outside of holding time
G-Estimated result due to extraction run outside of holding time

Lab Sample ID: S63870.28
Sample Tag: SB-86-14(1-3)
Collected Date/Time: 12/04/2014 10:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/26/15 10:00	RGS		F
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	91	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Arsenic	3.59	mg/kg	0.20	SW6020A	12/11/14 10:15	PER	7440-38-2	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/26/15 13:41	JAN	12674-11-2	G
PCB-1242	Not detected	ug/kg	330	SW8082A	01/26/15 13:41	JAN	53469-21-9	G
PCB-1221	Not detected	ug/kg	330	SW8082A	01/26/15 13:41	JAN	11104-28-2	G
PCB-1232	Not detected	ug/kg	330	SW8082A	01/26/15 13:41	JAN	11141-16-5	G
PCB-1248	Not detected	ug/kg	330	SW8082A	01/26/15 13:41	JAN	12672-29-6	G
PCB-1254	Not detected	ug/kg	330	SW8082A	01/26/15 13:41	JAN	11097-69-1	G
PCB-1260	Not detected	ug/kg	330	SW8082A	01/26/15 13:41	JAN	11096-82-5	G

F-Analysis run outside of holding time
G-Estimated result due to extraction run outside of holding time

Lab Sample ID: S63870.29
Sample Tag: SB-86-14(3-5)
Collected Date/Time: 12/04/2014 10:30
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	01/26/15 10:00	RGS		F
Metal Digestion	Completed			SW3050B	12/11/14 08:30	PER		
Inorganics								
Total Solids	91	%	1	SM2540B	12/08/14 17:00	WAR		
Metals								
Arsenic	1.31	mg/kg	0.20	SW6020A	12/11/14 10:16	PER	7440-38-2	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	01/26/15 13:52	JAN	12674-11-2	G
PCB-1242	Not detected	ug/kg	330	SW8082A	01/26/15 13:52	JAN	53469-21-9	G
PCB-1221	Not detected	ug/kg	330	SW8082A	01/26/15 13:52	JAN	11104-28-2	G
PCB-1232	Not detected	ug/kg	330	SW8082A	01/26/15 13:52	JAN	11141-16-5	G
PCB-1248	Not detected	ug/kg	330	SW8082A	01/26/15 13:52	JAN	12672-29-6	G
PCB-1254	Not detected	ug/kg	330	SW8082A	01/26/15 13:52	JAN	11097-69-1	G
PCB-1260	Not detected	ug/kg	330	SW8082A	01/26/15 13:52	JAN	11096-82-5	G

F-Analysis run outside of holding time
G-Estimated result due to extraction run outside of holding time

Lab Sample ID: S63870.30
Sample Tag: SB-86-15(1-3)
Collected Date/Time: 12/04/2014 10:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	94	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 21:23	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 21:23	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 21:23	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 21:23	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 21:23	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 21:23	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 21:23	JAN	11096-82-5	

Lab Sample ID: S63870.31
Sample Tag: SB-86-15(3-5)
Collected Date/Time: 12/04/2014 10:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	94	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 21:33	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 21:33	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 21:33	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 21:33	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 21:33	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 21:33	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 21:33	JAN	11096-82-5	

Lab Sample ID: S63870.32
Sample Tag: SB-86-16(1-3)
Collected Date/Time: 12/04/2014 10:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	96	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 21:43	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 21:43	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 21:43	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 21:43	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 21:43	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 21:43	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 21:43	JAN	11096-82-5	

Lab Sample ID: S63870.33
Sample Tag: SB-86-16(3-5)
Collected Date/Time: 12/04/2014 10:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 21:54	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 21:54	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 21:54	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 21:54	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 21:54	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 21:54	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 21:54	JAN	11096-82-5	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID:

Report To / Invoice To	
Contact & Company Name:	Telephone:
Address:	Fax:
City State Zip	Email: See comments
Project Name/Location (City, State):	Project #:
Sampler's Printed Name:	Sampler's Signature:

	Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic		REMARKS
63870							PARAMETER ANALYSIS & METHOD									
.01	SB-86-01(0-2)	12/3/14	1035	X		Soil					X					
.02	SB-86-01(5-7)	12/3/14	1040	X		Soil					X					
.03	SB-86-02(0-2)	12/3/14	1015	X		Soil					X					
.04	SB-86-02(5-7)	12/3/14	1020	X		Soil					X					
.05	SB-86-03(0-2)	12/3/14	0955	X		Soil					X					
.06	SB-86-03(6-8)	12/3/14	1000	X		Soil					X					
.07	SB-86-04(0-2)	12/3/14	0930	X		Soil					X					
.08	SB-86-04(6.5-8.5)	12/3/14	0935	X		Soil					X					
.09	SB-86-05(0-2)	12/3/14	1135	X		Soil					X					
.10	SB-86-05(4-6)	12/3/14	1140	X		Soil					X					
.11/.12/.13	SB-86-06(10-12)	12/3/14	1450	X		Soil					X					MS/MSD
.14	SB-86-07(5-7)	12/3/14	1410	X		Soil					X					
.15	SB-86-08(6-8)	12/3/14	1315	X		Soil					X					
.16	SB-86-09(7-9)	12/3/14	1510	X		Soil					X					
.17	SB-86-10(4-6)	12/4/14	1130	X		Soil							X			
.18	SB-86-10(8.5-10.5)	12/4/14	1155	X		Soil							X			
.19	SB-86-10(10.5-12.5)	12/4/14	1200	X		Soil							X			
.20	DUP-11	12/3/14	—	X		Soil					X					

Preservation Key / Container Information Key

	Container
A. H_2SO_4	1. 40 mL VOA
B. HCl	2. 1 L Amber
C. NaOH	3. 125 mL Plastic
D. HNO_3	4. 250 mL Plastic
E. None	5. 500 mL Plastic
F.	6. 1 L Plastic
G.	7. 2 oz. Glass

Laboratory Information	Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Printed Name:	Printed Name: Chris Gotthelf	Printed Name: Michela Dunkman
☑ Cooler packed with ice (✓)	Signature:	Signature:	Signature:
Specify Turnaround Requirements:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Date/Time: 12/5/14 1350	Date/Time: 12-5-14 1350	Date/Time: 12/05/14 1500 5.1

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID:

Contact & Company Name:	Telephone:
Address:	Fax:
City State Zip	Email: See comments
Project Name/Location (City, State):	Project #:
Sampler's Printed Name:	Sampler's Signature:

693870 Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic		REMARKS
.21 SB-86-11(4-6)	12/4/14	1125	X		Soil							X			
.22 SB-86-11(8.5-10.5)	12/4/14	1130	X		Soil							X			
.23 SB-86-11(10.5-12.5)	12/4/14	1135	X		Soil							X			
.24 SB-86-12(1-3)	12/4/14	0945	X		Soil								X		
.25 SB-86-12(3-5)	12/4/14	0950	X		Soil								X		
.26 SB-86-13(1-3)	12/4/14	0955	X		Soil					-X-			X		arsenic only
.27 SB-86-13(3-5)	12/4/14	1000	X		Soil					-X-			X		
.28 SB-86-14(1-3)	12/4/14	1025	X		Soil					-X-			X		
.29 SB-86-14(3-5)	12/4/14	1030	X		Soil					-X-			X		
.30 SB-86-15(1-3)	12/4/14	1035	X		Soil					X					
.31 SB-86-15(3-5)	12/4/14	1040	X		Soil					X					
.32 SB-86-16(1-3)	12/4/14	1045	X		Soil					X					
.33 SB-86-16(3-5)	12/4/14	1050	X		Soil					X					

PARAMETER ANALYSIS & METHOD

Preservation Key:	
Containers/Preservation Key:	
A. H_2SO_4	1, 40 mL
VOA	
B. HCl	2, 1 L
Amber	
C. NaOH	3, 125
mL Plastic	
D. HNO_3	4, 250
mL Plastic	
E. None	5, 500
mL Plastic	

Lab Name: Merit	Relinquished By	Received By	Relinquished By
☑ Cooler packed with ice (✓)	Printed Name:	Printed Name: Chris Gautreau	Printed Name: Michelle Dunkman
Specify Turnaround Requirements:	Signature:	Signature:	Signature:
Fed-Ex Tracking #:	Firm: ARCADIS	Firm: Merit	Firm: Merit
	Date/Time: 12/5/14 1350	Date/Time: 12-5-14 1350	Date/Time: 12/05/14 1500

Analytical Laboratory Report

Report ID: S63871.01(01)
Generated on 12/12/2014

Report to

Attention: Scott Clearwater
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1921 FAX: 810-229-8837
Email: scott.clearwater@arcadis-us.com

Addtional Contacts: Micki Maki, Erin Kozak, Deb Newcom

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

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Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S63871.01-S63871.19
Project: B0064410.2014.00206 / Buick City Site # 1295 Task 00206
Collected Date: 12/05/2014
Submitted Date/Time: 12/05/2014 15:00
Sampled by: Angela DeGrandis
P.O. #: B0064410.2014.00206



Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 20th Edition
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (19 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63871.01	SB-70-101-12(0-2)	Soil	12/05/2014 10:50
S63871.02	SB-70-101-12(2-4)	Soil	12/05/2014 10:55
S63871.03	SB-70-101-13(0-2)	Soil	12/05/2014 10:20
S63871.04	SB-70-101-13(2-4)	Soil	12/05/2014 10:25
S63871.05	SB-70-101-14(0-2)	Soil	12/05/2014 09:55
S63871.06	SB-70-101-14(0-2) MS	Soil	12/05/2014 09:55
S63871.07	SB-70-101-14(0-2) MSD	Soil	12/05/2014 09:55
S63871.08	SB-70-101-14(2-4)	Soil	12/05/2014 10:00
S63871.09	SB-70-101-15(0-2)	Soil	12/05/2014 09:40
S63871.10	SB-70-101-15(2-4)	Soil	12/05/2014 09:45
S63871.11	DUP-12	Soil	12/05/2014 00:01
S63871.12	SB-70-103-18(0-2)	Soil	12/05/2014 11:50
S63871.13	SB-70-103-18(2-4)	Soil	12/05/2014 11:55
S63871.14	SB-70-103-19(0-2)	Soil	12/05/2014 12:05
S63871.15	SB-70-103-19(2-4)	Soil	12/05/2014 12:10
S63871.16	SB-70-103-20(0-2)	Soil	12/05/2014 12:45
S63871.17	SB-70-103-20(2-4)	Soil	12/05/2014 12:50
S63871.18	SB-70-103-21(0-2)	Soil	12/05/2014 13:20
S63871.19	SB-70-103-21(2-4)	Soil	12/05/2014 13:25

Analytical Laboratory Report

Lab Sample ID: S63871.01
Sample Tag: SB-70-101-12(0-2)
Collected Date/Time: 12/05/2014 10:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	77	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	3,000	SW8082A	12/11/14 14:34	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	3,000	SW8082A	12/11/14 14:34	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	3,000	SW8082A	12/11/14 14:34	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	3,000	SW8082A	12/11/14 14:34	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	3,000	SW8082A	12/11/14 14:34	JAN	12672-29-6	Y
PCB-1254	13,000	ug/kg	3,000	SW8082A	12/11/14 14:34	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	3,000	SW8082A	12/11/14 14:34	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63871.02
Sample Tag: SB-70-101-12(2-4)
Collected Date/Time: 12/05/2014 10:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/09/14 15:43	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/09/14 15:43	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/09/14 15:43	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/09/14 15:43	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/09/14 15:43	JAN	12672-29-6	Y
PCB-1254	4,300	ug/kg	600	SW8082A	12/09/14 15:43	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/09/14 15:43	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63871.03
Sample Tag: SB-70-101-13(0-2)
Collected Date/Time: 12/05/2014 10:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	93	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	12/11/14 15:03	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	1,000	SW8082A	12/11/14 15:03	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	12/11/14 15:03	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	12/11/14 15:03	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	12/11/14 15:03	JAN	12672-29-6	Y
PCB-1254	11,000	ug/kg	1,000	SW8082A	12/11/14 15:03	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	12/11/14 15:03	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63871.04
Sample Tag: SB-70-101-13(2-4)
Collected Date/Time: 12/05/2014 10:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	75	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 17:08	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 17:08	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 17:08	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 17:08	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 17:08	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/09/14 17:08	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 17:08	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63871.05
Sample Tag: SB-70-101-14(0-2)
Collected Date/Time: 12/05/2014 09:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/09/14 14:50	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/09/14 14:50	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/09/14 14:50	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/09/14 14:50	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/09/14 14:50	JAN	12672-29-6	Y
PCB-1254	2,900	ug/kg	600	SW8082A	12/09/14 14:50	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/09/14 14:50	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63871.06
Sample Tag: SB-70-101-14(0-2) MS
Collected Date/Time: 12/05/2014 09:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/09/14 15:08	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/09/14 15:08	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/09/14 15:08	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/09/14 15:08	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/09/14 15:08	JAN	12672-29-6	Y
PCB-1254	3,400	ug/kg	600	SW8082A	12/09/14 15:08	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/09/14 15:08	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63871.07
Sample Tag: SB-70-101-14(0-2) MSD
Collected Date/Time: 12/05/2014 09:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/09/14 15:22	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/09/14 15:22	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/09/14 15:22	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/09/14 15:22	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/09/14 15:22	JAN	12672-29-6	Y
PCB-1254	5,500	ug/kg	600	SW8082A	12/09/14 15:22	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/09/14 15:22	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63871.08
Sample Tag: SB-70-101-14(2-4)
Collected Date/Time: 12/05/2014 10:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	75	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/09/14 17:18	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/09/14 17:18	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/09/14 17:18	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/09/14 17:18	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/09/14 17:18	JAN	12672-29-6	
PCB-1254	500	ug/kg	330	SW8082A	12/09/14 17:18	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/09/14 17:18	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63871.09
Sample Tag: SB-70-101-15(0-2)
Collected Date/Time: 12/05/2014 09:40
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	83	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	3,000	SW8082A	12/09/14 16:12	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	3,000	SW8082A	12/09/14 16:12	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	3,000	SW8082A	12/09/14 16:12	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	3,000	SW8082A	12/09/14 16:12	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	3,000	SW8082A	12/09/14 16:12	JAN	12672-29-6	Y
PCB-1254	12,000	ug/kg	3,000	SW8082A	12/09/14 16:12	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	3,000	SW8082A	12/09/14 16:12	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63871.10
Sample Tag: SB-70-101-15(2-4)
Collected Date/Time: 12/05/2014 09:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/08/14 10:00	RGS		
Inorganics								
Total Solids	86	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/09/14 16:23	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/09/14 16:23	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/09/14 16:23	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/09/14 16:23	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/09/14 16:23	JAN	12672-29-6	Y
PCB-1254	3,100	ug/kg	600	SW8082A	12/09/14 16:23	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/09/14 16:23	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63871.11
Sample Tag: DUP-12
Collected Date/Time: 12/05/2014 00:01
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/11/14 15:29	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/11/14 15:29	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/11/14 15:29	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/11/14 15:29	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/11/14 15:29	JAN	12672-29-6	Y
PCB-1254	4,200	ug/kg	600	SW8082A	12/11/14 15:29	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/11/14 15:29	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63871.12
Sample Tag: SB-70-103-18(0-2)
Collected Date/Time: 12/05/2014 11:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Inorganics								
Total Solids	79	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/11/14 15:40	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/11/14 15:40	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/11/14 15:40	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/11/14 15:40	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/11/14 15:40	JAN	12672-29-6	Y
PCB-1254	5,000	ug/kg	600	SW8082A	12/11/14 15:40	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/11/14 15:40	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63871.13
Sample Tag: SB-70-103-18(2-4)
Collected Date/Time: 12/05/2014 11:55
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Inorganics								
Total Solids	83	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 15:53	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 15:53	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 15:53	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 15:53	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 15:53	JAN	12672-29-6	
PCB-1254	1,500	ug/kg	330	SW8082A	12/11/14 15:53	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 15:53	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63871.14
Sample Tag: SB-70-103-19(0-2)
Collected Date/Time: 12/05/2014 12:05
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 17:01	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 17:01	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 17:01	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 17:01	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 17:01	JAN	12672-29-6	
PCB-1254	350	ug/kg	330	SW8082A	12/11/14 17:01	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 17:01	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63871.15
Sample Tag: SB-70-103-19(2-4)
Collected Date/Time: 12/05/2014 12:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Inorganics								
Total Solids	78	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 17:12	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 17:12	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 17:12	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 17:12	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 17:12	JAN	12672-29-6	
PCB-1254	260	ug/kg	330	SW8082A	12/11/14 17:12	JAN	11097-69-1	b
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 17:12	JAN	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S63871.16
Sample Tag: SB-70-103-20(0-2)
Collected Date/Time: 12/05/2014 12:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 17:22	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 17:22	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 17:22	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 17:22	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 17:22	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 17:22	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 17:22	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63871.17
Sample Tag: SB-70-103-20(2-4)
Collected Date/Time: 12/05/2014 12:50
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 17:33	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 17:33	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 17:33	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 17:33	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 17:33	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 17:33	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 17:33	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63871.18
Sample Tag: SB-70-103-21(0-2)
Collected Date/Time: 12/05/2014 13:20
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Inorganics								
Total Solids	77	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 17:44	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 17:44	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 17:44	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 17:44	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 17:44	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 17:44	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 17:44	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63871.19
Sample Tag: SB-70-103-21(2-4)
Collected Date/Time: 12/05/2014 13:25
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Inorganics								
Total Solids	74	%	1	SM2540B	12/08/14 17:00	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 17:54	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 17:54	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 17:54	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 17:54	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 17:54	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 17:54	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 17:54	JAN	11096-82-5	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID:

Project Manager Info		
Contact & Company Name: Erin Kozak; Scott Clearwater, Deb Newcom and Micki Maki	Telephone: 810.225.1901	
Address: 10559 Citation Drive	Fax:	
City: Brighton, MI — State — Zip	Email: See comments	
Project Name/Location (City, State): Buick City Site # 1295 Task 00209	Project #: 30064410.2014.00209	
Sampler's Printed Name: Angela DeGrandis	Sampler's Signature: Angela DeGrandis	

Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic
~~TW-03-03-1(~~			X		Soil					X			
~~TW-03-03-2(~~			X		Soil					X			
~~TW-03-03-3(~~			X		Soil					X			
~~TW-03-03-4(~~			X		Soil					X			
~~TW-70-101-8(0-2)~~			X		Soil					X			
~~TW-70-101-8(3-5)~~			X		Soil					X			
~~TW-70-101-8(7-9)~~			X		Soil					X			
~~TW-70-101-9(0-2)~~			X		Soil					X			
~~TW-70-101-9(3-5)~~			X		Soil					X			
~~TW-70-101-9(7-9)~~			X		Soil					X			
~~TW-70-101-10(0-2)~~			X		Soil					X			
TW-70-101-10(3-5)			X		Soil					X			
~~TW-70-101-10(7-9)~~			X		Soil					X			
~~SB-70-101-11(0-2)~~			X		Soil					X			
~~SB-70-101-11(2-4)~~			X		Soil					X			
SB-70-101-12(0-2)	12/5/14	1050	X		Soil					X			
SB-70-101-12(2-4)	12/5/14	1055	X		Soil					X			

63871
.01
.02

PARAMETER ANALYSIS & METHOD

Preservation: Matrix

Preservation Key: A - H_2SO_4, B - HCl, C - NaOH, D - HNO_3, E - None, F -, G -, H -

Matrix Key: SO - Soil, AQ - Aqueous, SW - Surface Water, DW - Drinking Water, WW - Wastewater, SL - Sludge, Other

Container Information Key: 1 - 40 ml. VOA, 2 - 1 L Amber, 3 - 125 ml. Plastic, 4 - 250 ml. Plastic, 5 - 500 ml. Plastic, 6 - 1 L Plastic, 7 - 2 oz. Glass, 8 - 4 oz. Glass, 9 - 8 oz. Glass, 10 - Other

REMARKS

Special Instructions/Comments: P.O.No: 125110 - Please email invoices to Christ Kiker (ARCADIS), email addresses: christ.kiker@arcadis-us.com; erin.kozak@arcadis-us.com
Direct bill to ARCADIS WA063

Special QA/QC Instructions (✓): Level 2 ; EDD

Laboratory / Shipment Info Section	Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Printed Name: Angela DeGrandis	Printed Name: Chris Gauthier	Printed Name: Michela Dunkman
☑ Cooler packed with ice (✓)	Signature: Angela DeGrandis	Signature:	Signature: Michela Dunkman
Specify Turnaround Requirements: Standard	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Date/Time: 12/5/14 1350	Date/Time: 12-5-14 1350	Date/Time: 12/05/14 1500

Cooler Custody Seal: ☐ Intact ☐ Not Intact

Sample Receipt: Condition/Cooler Temp: 5.1

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID:

Send Report To:	Contact & Company Name:	Telephone:
	Erin Kozak; Scott Clearwater, Deb Newcom and Micki Maki	810.225.1901
	Address:	Fax:
	10568 Citation Drive	
	City / State / Zip	Email
	Brighton, MI	See comments
Project Name/Location (City, State):	Buick City Site # 1295 Task 00206	Project #: B0064410.2014.00206
Sampler's Printed Name:	Angela DeGrandis	Sampler's Signature:

Preservation / Air Canister / Chlorine Residual

PARAMETER ANALYSIS & METHOD

Preservation Key: A. H_2SO_4; B. HCl; C. NaOH; D. HNO_3; E. None; F.; G.; H.

Container Information Key: 1. 40 mL VOA; 2. 1 L Amber; 3. 125 mL Plastic; 4. 250 mL Plastic; 5. 500 mL Plastic; 6. 1 L Plastic; 7. 1 L Glass; 8. Kits (Misc); 9. 8 oz Glass; 10. Other

Matrix Key: SW = Surface Water; GW = Groundwater; WW = Wastewater; SO = Soil; WP = Wipe; A = Air; SL = Sludge; O = Other; OL = Oil; SD = Solid

Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic	REMARKS
63871.03 SB-70-101-13(0-2)	12/5/14	1020	X		Soil					X				
.04 SB-70-101-13(2-4)	12/5/14	1025	X		Soil					X				
.05/.06/.07 SB-70-101-14(0-2)	12/5/14	0955	X		Soil					X				MS/MSD
.08 SB-70-101-14(2-4)	12/5/14	1000	X		Soil					X				
.09 SB-70-101-15(0-2)	12/5/14	0940	X		Soil					X				
.10 SB-70-101-15(2-4)	12/5/14	0945	X		Soil					X				
~~TW-70-103-12(0-2)~~			X		Soil					X				
~~TW-70-103-12(3-5)~~			X		Soil					X				
~~TW-70-103-12(7-8)~~			X		Soil					X				
~~TW-70-103-13(0-2)~~			X		Soil					X				
~~TW-70-103-13(3-5)~~			X		Soil					X				
~~TW-70-103-13(7-8)~~			X		Soil					X				
~~TW-70-103-14(0-2)~~			X		Soil					X				
~~TW-70-103-14(3-5)~~			X		Soil					X				
~~TW-70-103-14(7-8)~~			X		Soil					X				
~~TW-70-103-15(0-2)~~			X		Soil					X				
~~TW-70-103-15(3-5)~~			X		Soil					X				
~~TW-70-103-15(7-8)~~			X		Soil					X				
.11 DUP-12	12/5/14	—	X		Soil					X				

Special Instructions/Comments: P.O.No: 126110 - Please email invoices to Christi Kiker (ARCADIS), email addresses: christi.kiker@arcadis-us.com; erin.kozak@arcadis-us.com
Direct bill to ARCADIS WA053

Special QA/QC Instructions (Y): Level 2 , EDD

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal: ○ Intact ○ Not Intact	Printed Name: Angela DeGrandis	Printed Name: Chris Faithica	Printed Name: Michela Dunkman
☑ Cooler packed with Ice (✓)		Signature: Angela DeGrandis	Signature:	Signature: Michela Dunkman
Specify Turnaround Requirements: Standard	Sample Receipt:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Condition/Cooler Temp: 5.1	Date/Time: 12/5/14 1350	Date/Time: 12-5-14 1350	Date/Time: 12/05/14 1500

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID:

Project Manager (PM)	Telephone:
Contact & Company Name: Erin Kozak; Scott Clearwater, Deb Newcomb and Micki Maid	616.295.1901
Address: 10559 Citation Drive	Fax:
City / State / Zip: Brighton, MI	Email: See comments
Project Name/Location (City, State): Dutch City Site # 1295 Task 00205	Project #: 30064410.2014.00205
Sampler's Printed Name: Angela DeGrandis	Sampler's Signature:

Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	TPH-GRO	TPH-DRO	TPH-ORO	VOCs	PCBs	Lead	Manganese	Arsenic
~~TW-70-103-16(0-2)~~			X		Soil					X			
~~TW-70-103-16(3-5)~~			X		Soil					X			
~~TW-70-103-16(7-9)~~			X		Soil					X			
~~TW-70-103-17(0-2)~~			X		Soil					X			
~~TW-70-103-17(3-5)~~			X		Soil					X			
~~TW-70-103-17(7-9)~~			X		Soil					X			
12 SB-70-103-18(0-2)	12/5/14	1150	X		Soil					X			
13 SB-70-103-18(2-4)	12/5/14	1155	X		Soil					X			
14 SB-70-103-19(0-2)	12/5/14	1205	X		Soil					X			
15 SB-70-103-19(2-4)	12/5/14	1210	X		Soil					X			
16 SB-70-103-20(0-2)	12/5/14	1245	X		Soil					X			
17 SB-70-103-20(2-4)	12/5/14	1250	X		Soil					X			
18 SB-70-103-21(0-2)	12/5/14	1320	X		Soil					X			
19 SB-70-103-21(2-4)	12/5/14	1325	X		Soil					X			
~~TW-70-107R-11(0-2)~~			X		Soil					X			
~~TW-70-107R-11(3-5)~~			X		Soil					X			
~~TW-70-107R-11(7-9)~~			X		Soil					X			

63871

Preservation: | Container Number: | PARAMETER ANALYSIS & METHOD

REMARKS

Special Instructions/Comments: P.O.No: 120110 - Please email invoices to Christ Kiker (ARCADIS), email addresses: christ.kiker@arcadis-us.com; erin.kozak@arcadis-us.com
Direct bill to ARCADIS WA063

Special QA/QC Instructions (✓): Level 3 , EDD

Laboratory Information (Lab Receipt)		Relinquished By	Received By	Relinquished By
Lab Name: Merit	Cooler Custody Seal: ☐ Intact ☐ Not Intact	Printed Name: Angela DeGrandis	Printed Name: Christ Kiker	Printed Name: Michela Dunkman
☑ Cooler packed with ice (✓)		Signature:	Signature:	Signature:
Specify Turnaround Requirements: Standard	Sample Receipt:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Condition/Cooler Temp: 5.1	Date/Time: 12/5/14 1350	Date/Time: 12-5-14 1350	Date/Time: 12/05/14 1500

Analytical Laboratory Report

Report ID: S63961.01(01)
Generated on 12/18/2014

Report to

Attention: Scott Clearwater
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1921 FAX: 810-229-8837
Email: scott.clearwater@arcadis-us.com

Addtional Contacts: Micki Maki, Erin Kozak, Deb Newcom

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S63961.01-S63961.21
Project: B0064410.2014.00206 / Buick City Site # 1295 Task 00206
Collected Date: 12/11/2014
Submitted Date/Time: 12/11/2014 14:30
Sampled by: Angela DeGrandis
P.O. #: B0064410.2014.00206



Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 20th Edition
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (21 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63961.01	SB-81-10 (0-2)	Soil	12/11/2014 09:20
S63961.02	SB-81-10 (2-4)	Soil	12/11/2014 09:25
S63961.03	SB-81-13 (0-2)	Soil	12/11/2014 09:30
S63961.04	SB-81-13 (2-4)	Soil	12/11/2014 09:35
S63961.05	SB-81-12 (0-2)	Soil	12/11/2014 10:00
S63961.06	SB-81-12 (2-4)	Soil	12/11/2014 10:05
S63961.07	SB-81-11 (0-2)	Soil	12/11/2014 10:30
S63961.08	SB-81-11 (0-2) MS	Soil	12/11/2014 10:30
S63961.09	SB-81-11 (0-2) MSD	Soil	12/11/2014 10:30
S63961.10	SB-81-11 (2-4)	Soil	12/11/2014 10:35
S63961.11	SB-81-14 (0-2)	Soil	12/11/2014 10:55
S63961.12	SB-81-14 (2-4)	Soil	12/11/2014 11:00
S63961.13	SB-81-07 (0-2)	Soil	12/11/2014 11:20
S63961.14	SB-81-07 (2-4)	Soil	12/11/2014 11:25
S63961.15	SB-81-08 (0-2)	Soil	12/11/2014 11:45
S63961.16	SB-81-08 (2-4)	Soil	12/11/2014 11:50
S63961.17	SB-81-06 (0-2)	Soil	12/11/2014 12:10
S63961.18	SB-81-06 (2-4)	Soil	12/11/2014 12:15
S63961.19	SB-81-09 (0-2)	Soil	12/11/2014 12:40
S63961.20	SB-81-09 (2-4)	Soil	12/11/2014 12:45
S63961.21	DUP-13	Soil	12/11/2014 00:01

Analytical Laboratory Report

Lab Sample ID: S63961.01
Sample Tag: SB-81-10 (0-2)
Collected Date/Time: 12/11/2014 09:20
Matrix: Soil
COC Reference: 87437

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/15/14 10:00	RGS		
Inorganics								
Total Solids	91	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/16/14 13:01	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/16/14 13:01	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/16/14 13:01	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/16/14 13:01	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/16/14 13:01	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/16/14 13:01	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/16/14 13:01	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63961.02
Sample Tag: SB-81-10 (2-4)
Collected Date/Time: 12/11/2014 09:25
Matrix: Soil
COC Reference: 87437

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/15/14 10:00	RGS		
Inorganics								
Total Solids	88	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/16/14 13:14	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/16/14 13:14	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/16/14 13:14	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/16/14 13:14	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/16/14 13:14	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/16/14 13:14	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/16/14 13:14	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63961.03
Sample Tag: SB-81-13 (0-2)
Collected Date/Time: 12/11/2014 09:30
Matrix: Soil
COC Reference: 87437

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/15/14 10:00	RGS		
Inorganics								
Total Solids	91	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,500	SW8082A	12/16/14 13:33	ADB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	1,500	SW8082A	12/16/14 13:33	ADB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,500	SW8082A	12/16/14 13:33	ADB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,500	SW8082A	12/16/14 13:33	ADB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,500	SW8082A	12/16/14 13:33	ADB	12672-29-6	Y
PCB-1254	10,200	ug/kg	1,500	SW8082A	12/16/14 13:33	ADB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,500	SW8082A	12/16/14 13:33	ADB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63961.04
Sample Tag: SB-81-13 (2-4)
Collected Date/Time: 12/11/2014 09:35
Matrix: Soil
COC Reference: 87437

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/15/14 10:00	RGS		
Inorganics								
Total Solids	72	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	12/16/14 11:40	ADB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	500	SW8082A	12/16/14 11:40	ADB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	12/16/14 11:40	ADB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	12/16/14 11:40	ADB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	12/16/14 11:40	ADB	12672-29-6	Y
PCB-1254	3,700	ug/kg	500	SW8082A	12/16/14 11:40	ADB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	12/16/14 11:40	ADB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63961.05
Sample Tag: SB-81-12 (0-2)
Collected Date/Time: 12/11/2014 10:00
Matrix: Soil
COC Reference: 87437

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/15/14 10:00	RGS		
Inorganics								
Total Solids	92	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/16/14 14:05	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/16/14 14:05	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/16/14 14:05	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/16/14 14:05	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/16/14 14:05	ADB	12672-29-6	
PCB-1254	720	ug/kg	330	SW8082A	12/16/14 14:05	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/16/14 14:05	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63961.06
Sample Tag: SB-81-12 (2-4)
Collected Date/Time: 12/11/2014 10:05
Matrix: Soil
COC Reference: 87437

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/15/14 10:00	RGS		
Inorganics								
Total Solids	71	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/16/14 14:16	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/16/14 14:16	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/16/14 14:16	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/16/14 14:16	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/16/14 14:16	ADB	12672-29-6	
PCB-1254	2,200	ug/kg	330	SW8082A	12/16/14 14:16	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/16/14 14:16	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63961.07
Sample Tag: SB-81-11 (0-2)
Collected Date/Time: 12/11/2014 10:30
Matrix: Soil
COC Reference: 87437

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/15/14 10:00	RGS		
Inorganics								
Total Solids	90	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	12/16/14 12:45	ADB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	1,000	SW8082A	12/16/14 12:45	ADB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	12/16/14 12:45	ADB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	12/16/14 12:45	ADB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	12/16/14 12:45	ADB	12672-29-6	Y
PCB-1254	6,700	ug/kg	1,000	SW8082A	12/16/14 12:45	ADB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	12/16/14 12:45	ADB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63961.08
Sample Tag: SB-81-11 (0-2) MS
Collected Date/Time: 12/11/2014 10:30
Matrix: Soil
COC Reference: 87437

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/15/14 10:00	RGS		
Inorganics								
Total Solids	90	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	12/16/14 13:10	ADB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	1,000	SW8082A	12/16/14 13:10	ADB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	12/16/14 13:10	ADB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	12/16/14 13:10	ADB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	12/16/14 13:10	ADB	12672-29-6	Y
PCB-1254	6,500	ug/kg	1,000	SW8082A	12/16/14 13:10	ADB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	12/16/14 13:10	ADB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63961.09
Sample Tag: SB-81-11 (0-2) MSD
Collected Date/Time: 12/11/2014 10:30
Matrix: Soil
COC Reference: 87437

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/15/14 10:00	RGS		
Inorganics								
Total Solids	89	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	12/16/14 13:20	ADB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	1,000	SW8082A	12/16/14 13:20	ADB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	12/16/14 13:20	ADB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	12/16/14 13:20	ADB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	12/16/14 13:20	ADB	12672-29-6	Y
PCB-1254	7,600	ug/kg	1,000	SW8082A	12/16/14 13:20	ADB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	12/16/14 13:20	ADB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63961.10
Sample Tag: SB-81-11 (2-4)
Collected Date/Time: 12/11/2014 10:35
Matrix: Soil
COC Reference: 87437

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/15/14 10:00	RGS		
Inorganics								
Total Solids	83	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	12/16/14 13:44	ADB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	1,000	SW8082A	12/16/14 13:44	ADB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	1,000	SW8082A	12/16/14 13:44	ADB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	1,000	SW8082A	12/16/14 13:44	ADB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	1,000	SW8082A	12/16/14 13:44	ADB	12672-29-6	Y
PCB-1254	8,700	ug/kg	1,000	SW8082A	12/16/14 13:44	ADB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	1,000	SW8082A	12/16/14 13:44	ADB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63961.11
Sample Tag: SB-81-14 (0-2)
Collected Date/Time: 12/11/2014 10:55
Matrix: Soil
COC Reference: 87437

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/15/14 10:00	RGS		
Inorganics								
Total Solids	87	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/16/14 12:08	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/16/14 12:08	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/16/14 12:08	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/16/14 12:08	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/16/14 12:08	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/16/14 12:08	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/16/14 12:08	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63961.12
Sample Tag: SB-81-14 (2-4)
Collected Date/Time: 12/11/2014 11:00
Matrix: Soil
COC Reference: 87437

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/15/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	12/16/14 13:54	ADB	12674-11-2	Y
PCB-1242	Not detected	ug/kg	500	SW8082A	12/16/14 13:54	ADB	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	12/16/14 13:54	ADB	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	12/16/14 13:54	ADB	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	12/16/14 13:54	ADB	12672-29-6	Y
PCB-1254	4,900	ug/kg	500	SW8082A	12/16/14 13:54	ADB	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	12/16/14 13:54	ADB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63961.13
Sample Tag: SB-81-07 (0-2)
Collected Date/Time: 12/11/2014 11:20
Matrix: Soil
COC Reference: 87437

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/15/14 10:00	RGS		
Inorganics								
Total Solids	87	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/16/14 13:25	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/16/14 13:25	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/16/14 13:25	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/16/14 13:25	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/16/14 13:25	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/16/14 13:25	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/16/14 13:25	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63961.14
Sample Tag: SB-81-07 (2-4)
Collected Date/Time: 12/11/2014 11:25
Matrix: Soil
COC Reference: 87437

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/15/14 10:00	RGS		
Inorganics								
Total Solids	84	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/16/14 13:35	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/16/14 13:35	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/16/14 13:35	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/16/14 13:35	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/16/14 13:35	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/16/14 13:35	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/16/14 13:35	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63961.15
Sample Tag: SB-81-08 (0-2)
Collected Date/Time: 12/11/2014 11:45
Matrix: Soil
COC Reference: 87438

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/15/14 10:00	RGS		
Inorganics								
Total Solids	87	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/16/14 13:46	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/16/14 13:46	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/16/14 13:46	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/16/14 13:46	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/16/14 13:46	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/16/14 13:46	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/16/14 13:46	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63961.16
Sample Tag: SB-81-08 (2-4)
Collected Date/Time: 12/11/2014 11:50
Matrix: Soil
COC Reference: 87438

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/14 12:00	RGS		
Inorganics								
Total Solids	84	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/18/14 11:15	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/18/14 11:15	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/18/14 11:15	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/18/14 11:15	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/18/14 11:15	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/18/14 11:15	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/18/14 11:15	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63961.17
Sample Tag: SB-81-06 (0-2)
Collected Date/Time: 12/11/2014 12:10
Matrix: Soil
COC Reference: 87438

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/14 12:00	RGS		
Inorganics								
Total Solids	88	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/18/14 11:25	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/18/14 11:25	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/18/14 11:25	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/18/14 11:25	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/18/14 11:25	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/18/14 11:25	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/18/14 11:25	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63961.18
Sample Tag: SB-81-06 (2-4)
Collected Date/Time: 12/11/2014 12:15
Matrix: Soil
COC Reference: 87438

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/14 12:00	RGS		
Inorganics								
Total Solids	85	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/18/14 11:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/18/14 11:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/18/14 11:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/18/14 11:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/18/14 11:36	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/18/14 11:36	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/18/14 11:36	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63961.19
Sample Tag: SB-81-09 (0-2)
Collected Date/Time: 12/11/2014 12:40
Matrix: Soil
COC Reference: 87438

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/14 12:00	RGS		
Inorganics								
Total Solids	87	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/18/14 12:20	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/18/14 12:20	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/18/14 12:20	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/18/14 12:20	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/18/14 12:20	JAN	12672-29-6	Y
PCB-1254	3,200	ug/kg	600	SW8082A	12/18/14 12:20	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/18/14 12:20	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63961.20
Sample Tag: SB-81-09 (2-4)
Collected Date/Time: 12/11/2014 12:45
Matrix: Soil
COC Reference: 87438

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/14 12:00	RGS		
Inorganics								
Total Solids	83	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/18/14 12:31	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/18/14 12:31	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/18/14 12:31	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/18/14 12:31	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/18/14 12:31	JAN	12672-29-6	Y
PCB-1254	2,400	ug/kg	600	SW8082A	12/18/14 12:31	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/18/14 12:31	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63961.21
Sample Tag: DUP-13
Collected Date/Time: 12/11/2014 00:01
Matrix: Soil
COC Reference: 87438

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/16/14 12:00	RGS		
Inorganics								
Total Solids	87	%	1	SM2540B	12/15/14 08:30	WAR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	600	SW8082A	12/18/14 12:47	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	600	SW8082A	12/18/14 12:47	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	600	SW8082A	12/18/14 12:47	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	600	SW8082A	12/18/14 12:47	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	600	SW8082A	12/18/14 12:47	JAN	12672-29-6	Y
PCB-1254	1,900	ug/kg	600	SW8082A	12/18/14 12:47	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	600	SW8082A	12/18/14 12:47	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Merit Laboratories, Inc.

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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

87437

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Erin Kozak, Scott Clearwater, Deb Newcom, Micki Maki
COMPANY: ARCADIS
ADDRESS: 10559 Citation Drive
CITY: Brighton, MI STATE: MI ZIP CODE:
PHONE NO.: 810-225-1901 FAX NO.: —
E-MAIL ADDRESS: christi.kiker@arcadis-us.com; erin.kozak@arcadis-us.com
P.O. NO.: 126110 - email invoices to Christi Kiker
QUOTE NO.: Direct Bill to ARCADIS - WA063

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: B006441O.2014.00206 / Buick City Site #1295 Task 00206
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Angela DeBrando
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER
DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☒ EDD ☐ OTHER

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB's	MS/MSD
639611.01	12/11/14	0920	SB-81-10 (0-2)	S	1	X							X	
.02		0925	SB-81-10 (2-4)	S	1	X							X	
.03		0930	SB-81-13 (0-2)	S	1	X							X	
.04		0935	SB-81-13 (2-4)	S	1	X							X	
.05		1000	SB-81-12 (0-2)	S	1	X							X	
.06		1005	SB-81-12 (2-4)	S	1	X							X	
.07/.08/.09		1030	SB-81-11 (0-2)	S	3	X							X	MS/MSD
.10		1035	SB-81-11 (2-4)	S	1	X							X	
.11		1055	SB-81-14 (0-2)	S	1	X							X	
.12		1100	SB-81-14 (2-4)	S	1	X							X	
.13		1120	SB-81-07 (0-2)	S	1	X							X	
.14		1125	SB-81-07 (2-4)	S	1	X							X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Angela DeBrando/ARCADIS ☒Sampler	DATE: 12/11/14	TIME: 1300	
RECEIVED BY: SIGNATURE/ORGANIZATION: ARCADIS	DATE: 12-11-14	TIME: 1300	
RELINQUISHED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	

RELINQUISHED BY: SIGNATURE/ORGANIZATION:	DATE: 12-11-14	TIME: 1430	
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE: 12/11/14	TIME: 1431	
SEAL NO.	SEAL INTACT YES☐ NO☐	INITIALS	NOTES: TEMP. ON ARRIVAL 5.0
SEAL NO.	SEAL INTACT YES☐ NO☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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C.O.C. PAGE # 2 OF 2

87438

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Erin Kozak, Scott Clearwater, Deb Newcom, Micki Maki
COMPANY: ARCADIS
ADDRESS: 10559 Citation Drive
CITY: Brighton STATE: MI ZIP CODE:
PHONE NO.: 810-225-1901 FAX NO.:
P.O. NO.: 126110 email invoices
E-MAIL ADDRESS: christi.kiker@arcadis-us.com erin.kozak@arcadis-us.com
QUOTE NO.: Direct Bill to ARCADIS

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: to Christi Kiker E-MAIL ADDRESS:

WA063

PROJECT NO./NAME: B006410.2014.00206 / Buick City Site #1295 Task 00206
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Angela DeBrandt / Angela DeBrandt

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☒ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB's
639161.15	12/11/14	1145	~~Collect~~ SB-81-08 (0-2)	S	1	X							X
.16		1150	SB-81-08 (2-4)	S	1	X							X
.17		1210	SB-81-06 (0-2)	S	1	X							X
.18		1215	SB-81-06 (2-4)	S	1	X							X
.19		1240	SB-81-09 (0-2)	S	1	X							X
.20		1245	SB-81-09 (2-4)	S	1	X							X
.21		—	DUP-13	S	1	X							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Angela DeBrandt/ARCADIS Angela DeBrandt/ARCADIS ☒ Sampler DATE: 12/11/14 TIME: 1300
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: 12-11-14 TIME: 1350

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: 12/11/14 TIME: 1430
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: 12/11/14 TIME: 1430

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 5.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S74794.01(01)
Generated on 07/20/2016

Report to

Attention: Micki Macki
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1909 FAX: 248-994-2241
Email: micki.maki@arcadis.com

Addtional Contacts: Tiffany Linder, Christi Kiker, Andrew Lorenz

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S74794.01-S74794.04
Project: B0064410.2016.00207/ Buick City RACER Flint, MI
Collected Date: 07/15/2016
Submitted Date/Time: 07/18/2016 08:00
Sampled by: Lance Rogers
P.O. #: PO

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Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 20th Edition
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (4 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S74794.01	SB-70-101-22 (0-2) (071516)	Soil	07/15/16 16:35
S74794.02	SB-70-101-22 (2-4) (071516)	Soil	07/15/16 16:38
S74794.03	SB-70-101-23 (0-2) (071516)	Soil	07/15/16 17:10
S74794.04	SB-70-101-23 (2-4) (071516)	Soil	07/15/16 17:15

Analytical Laboratory Report

Lab Sample ID: S74794.01
Sample Tag: SB-70-101-22 (0-2) (071516)
Collected Date/Time: 07/15/2016 16:35
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	No	22.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	07/18/16 11:43	PLB		
Inorganics								
Total Solids	94	%	1	SM2540B	07/19/16 12:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	07/18/16 16:42	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	07/18/16 16:42	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	07/18/16 16:42	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	07/18/16 16:42	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	07/18/16 16:42	JAN	12672-29-6	
PCB-1254	400	ug/kg	330	SW8082A	07/18/16 16:42	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	07/18/16 16:42	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S74794.02
Sample Tag: SB-70-101-22 (2-4) (071516)
Collected Date/Time: 07/15/2016 16:38
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	No	22.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	07/18/16 11:43	PLB		
Inorganics								
Total Solids	88	%	1	SM2540B	07/19/16 12:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	07/18/16 17:28	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	07/18/16 17:28	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	07/18/16 17:28	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	07/18/16 17:28	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	07/18/16 17:28	JAN	12672-29-6	
PCB-1254	600	ug/kg	330	SW8082A	07/18/16 17:28	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	07/18/16 17:28	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S74794.03
Sample Tag: SB-70-101-23 (0-2) (071516)
Collected Date/Time: 07/15/2016 17:10
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	No	22.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	07/18/16 11:43	PLB		
Inorganics								
Total Solids	93	%	1	SM2540B	07/19/16 12:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	07/18/16 17:43	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	07/18/16 17:43	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	07/18/16 17:43	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	07/18/16 17:43	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	07/18/16 17:43	JAN	12672-29-6	
PCB-1254	600	ug/kg	330	SW8082A	07/18/16 17:43	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	07/18/16 17:43	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S74794.04
Sample Tag: SB-70-101-23 (2-4) (071516)
Collected Date/Time: 07/15/2016 17:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	No	22.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	07/18/16 11:43	PLB		
Inorganics								
Total Solids	94	%	1	SM2540B	07/19/16 12:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	07/18/16 17:14	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	500	SW8082A	07/18/16 17:14	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	07/18/16 17:14	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	07/18/16 17:14	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	07/18/16 17:14	JAN	12672-29-6	Y
PCB-1254	3,000	ug/kg	500	SW8082A	07/18/16 17:14	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	07/18/16 17:14	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Merit Laboratories Inc.
2680 East Lansing Dr., East Lansing, MI 48823
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www.meritlabs.com

C.O.C. Page # 1 of 1 C.O.C I.D.#

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Macki Cc: T. Linder and A. Lorenz on receipt
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 28550 Cabot Drive Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248.994.2240 | FAX NO.: 248.994.2241 | P.O. NO.:
EMAIL ADDRES: tiffany.linder@arcadis.com; andrew.lorenz@arcadis.com@arcadis-us.com; micki.maki@arcadis.com, christi.kiker@arcadis-us.com
QUOTE NO.:

INVOICE TO

☑ SAME

CONTACT NAME: Chriti Kiker
COMPANY: ARCADIS U.S., Inc.
ADDRESS: 101 S. Washington Square, Suite 40
CITY: Lansing | STATE: MI | ZIP CODE: 48933
PHONE NO.: 517.337.0111 | EMAIL ADDRESS: christ.kiker@arcadis.com

PROJECT NO./NAME: B0064410.2016.00207 / Buick City RACER Flint, MI
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Lance Rogers

TURNAROUND TIME REQUIRED: ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ LEVEL I ☑ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☑ EDD ☐ OTHER

Matrix Code: GW=Groundwater WW=Waste Water S=Soil L=Liquid SD=Solid SL=Sludge DW=Drinking Water O=Oil WP=Wipe A=Air W=Waste

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ Ohio VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☑ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION - DESCRIPTION	MATRIX	# OF BOTTLES	# OF CONTAINERS & PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NAOH	MEOH	OTHER	PCBs (8082A)
747940	7-15	1635	SB-70-101-22 (0-2) (071516)	S	1	1							X
.02	7-15	1638	SB-70-101-22 (2-4) (071516)	S	1	1							X
.03	7-15	1710	SB-70-101-23 (0-2) (071516)	S	1	1							X
.04	7-15	1715	SB-70-101-23 (2-4) (071516)	S	1	1							X

Relinquished By Signature/Organization: Lance M Rogers/ARCADIS ☑ Sampler Date: 7-15-16 Time: 1945
Recieved By Signature/Organization: Merit after hours locker Date: 7-15-16 Time: 1945
Relinquished By Signature/Organization: Merit Drop Box Date: Time:
Recieved By Signature/Organization: M Wilcote Date: 7/18/16 Time: 800

Relinquished By Signature/Organization: Date: Tim
Recieved By Signature/Organization: Date: Tim

Seal No.: Seal Intact ☐ Yes ☐ No Initals:
Seal No.: Seal Intact ☐ Yes ☐ No Initals:

Notes: Temp. on arrival 22.5

Analytical Laboratory Report

Report ID: S91744.01(01)
Generated on 07/19/2018

Report to

Attention: Erin Kozak
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Addtional Contacts: Megan Humphrey, Micki Maki

Report produced by

Merit Laboratories, Inc.
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Phone: (517) 332-0167 FAX: (517) 332-6333

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Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S91744.01-S91744.04
Project: B0064410.2018.01905
Collected Date: 07/12/2018
Submitted Date/Time: 07/17/2018 14:55
Sampled by: Severin Presswood
P.O. #: B0064410.2018.01905

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Maya Murshak
Technical Director

Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (4 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S91744.01	SB-40-17(0-2)07122018	Soil	07/12/18 12:30
S91744.02	SB-40-18(0-2)07122018	Soil	07/12/18 12:45
S91744.03	SB-40-19(0-2)07122018	Soil	07/12/18 12:55
S91744.04	SB-40-20(0-2)07122018	Soil	07/12/18 13:05

Analytical Laboratory Report

Lab Sample ID: S91744.01
Sample Tag: SB-40-17(0-2)07122018
Collected Date/Time: 07/12/2018 12:30
Matrix: Soil
COC Reference: 112830

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/18/18 15:00	PLB	

Inorganics

Method: SM2540B, Run Date: 07/18/18 16:55, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/19/18 15:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	40	12674-11-2	
PCB-1242	Not detected	330		ug/kg	40	53469-21-9	
PCB-1221	Not detected	330		ug/kg	40	11104-28-2	
PCB-1232	Not detected	330		ug/kg	40	11141-16-5	
PCB-1248	Not detected	330		ug/kg	40	12672-29-6	
PCB-1254	1,600	330		ug/kg	40	11097-69-1	
PCB-1260	Not detected	330		ug/kg	40	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S91744.02
Sample Tag: SB-40-18(0-2)07122018
Collected Date/Time: 07/12/2018 12:45
Matrix: Soil
COC Reference: 112830

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/18/18 15:00	PLB	

Inorganics

Method: SM2540B, Run Date: 07/18/18 16:55, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/19/18 15:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	100	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	100	12672-29-6	Y
PCB-1254	1,600	500		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S91744.03
Sample Tag: SB-40-19(0-2)07122018
Collected Date/Time: 07/12/2018 12:55
Matrix: Soil
COC Reference: 112830

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/18/18 15:00	PLB	

Inorganics

Method: SM2540B, Run Date: 07/18/18 16:55, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/19/18 15:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	900	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S91744.04
Sample Tag: SB-40-20(0-2)07122018
Collected Date/Time: 07/12/2018 13:05
Matrix: Soil
COC Reference: 112830

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	07/18/18 15:00	PLB	

Inorganics

Method: SM2540B, Run Date: 07/18/18 16:55, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1	1	%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 07/19/18 15:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	50	12674-11-2	
PCB-1242	Not detected	330		ug/kg	50	53469-21-9	
PCB-1221	Not detected	330		ug/kg	50	11104-28-2	
PCB-1232	Not detected	330		ug/kg	50	11141-16-5	
PCB-1248	Not detected	330		ug/kg	50	12672-29-6	
PCB-1254	1,300	330		ug/kg	50	11097-69-1	
PCB-1260	Not detected	330		ug/kg	50	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S91744
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: B0064410.2018.01905
Submitted: 07/17/2018 14:55 Login User: SRS

Attention: Erin Kozak
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241
Email: erin.kozak@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.9
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[ ] Yes	[ ] No	[X] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Prepared by Merit Laboratories

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

112830

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Erin Kozak
COMPANY: Arcadis of MI LLC
ADDRESS: 28550 Cabot Dr Ste 500
CITY: Novi | STATE: MI | ZIP CODE: 48377
PHONE NO.: 248-730-9978 | FAX NO.: | P.O. NO.:
E-MAIL ADDRESS: Erin.Kozak@arcadis.com | QUOTE NO.:

INVOICE TO

CONTACT NAME: | ☒ SAME
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | E-MAIL ADDRESS:

PROJECT NO./NAME: B0064410.2018.01905
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Severin Presswood

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB's
91744.01	7-12-18	1230	SB-40-17(0-2)07122018	S	1	1							X
.02	"	1245	SB-40-18(0-2)07122018	S	1	1							X
.03	"	1255	SB-40-19(0-2)07122018	S	1	1							X
.04	"	1305	SB-40-20(0-2)07122018	S	1	1							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Severin Pressw / Arcadis ☒ Sampler	DATE: 7-13-18	TIME: 836	
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	
RELINQUISHED BY: SIGNATURE/ORGANIZATION: ARCADIS	DATE: 7-17-18	TIME: 1055	
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE: 7-17-18	TIME: 1055	

RELINQUISHED BY: SIGNATURE/ORGANIZATION:	DATE: 7-17-18	TIME:	
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE: 7/17/18	TIME: 1455	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

NOTES: TEMP. ON ARRIVAL 3.9

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S92847.01(01)
Generated on 08/21/2018

Report to

Attention: Micki Maki
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1909 FAX: 248-994-2241
Email: micki.maki@arcadis.com

Addtional Contacts: Megan Humphrey

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S92847.01-S92847.23
Project: RACER Buick City
Collected Date: 08/08/2018 - 08/09/2018
Submitted Date/Time: 08/10/2018 15:20
Sampled by: Kaitlyn Voet
P.O. #: B0064410.2018.01905

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3510C	SW 846 Method 3510C Revision 3 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (23 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S92847.01	SB-DH-RW-3-51(7-9)08082018	Soil	08/08/18 13:55
S92847.02	SB-DH-RW-3-51(9-11)08082018	Soil	08/08/18 14:00
S92847.03	SB-DH-RW-3-51(11-13)08082018	Soil	08/08/18 14:05
S92847.04	SB-DH-RW-3-51(13-15)08082018	Soil	08/08/18 14:10
S92847.05	SB-DH-RW-3-52(7-9)08082018	Soil	08/08/18 15:45
S92847.06	SB-DH-RW-3-52(9-11)08082018	Soil	08/08/18 15:50
S92847.07	SB-DH-RW-3-52(11-13)08082018	Soil	08/08/18 16:45
S92847.08	SB-DH-RW-3-52(13-15)08082018	Soil	08/08/18 16:50
S92847.09	SB-DH-RW-3-52(15-17)08082018	Soil	08/08/18 15:55
S92847.10	SB-DH-RW-3-52(17-19)08082018	Soil	08/08/18 16:00
S92847.11	DUP-208082018	Soil	08/08/18 00:01
S92847.12	SB-DH-RW-3-54(5-7)08092018	Soil	08/09/18 10:30
S92847.13	SB-DH-RW-3-54(7-9)08092018	Soil	08/09/18 10:35
S92847.14	SB-DH-RW-3-54(9-11)08092018	Soil	08/09/18 10:40
S92847.15	SB-DH-RW-3-54(11-13)08092018	Soil	08/09/18 10:45
S92847.16	SB-DH-RW-3-54(13-15)08092018	Soil	08/09/18 10:50
S92847.17	SB-DH-RW-3-53(9-11)08092018	Soil	08/09/18 12:10
S92847.18	SB-DH-RW-3-53(11-13)08092018	Soil	08/09/18 12:15
S92847.19	SB-DH-RW-3-53(11-13)08092018 MS	Soil	08/09/18 12:15
S92847.20	SB-DH-RW-3-53(11-13)08092018 MSD	Soil	08/09/18 12:15
S92847.21	SB-DH-RW-3-53(13-15)08092018	Soil	08/09/18 12:20
S92847.22	SB-DH-RW-3-53(15-17)08092018	Soil	08/09/18 12:25
S92847.23	EB-308092018	Water	08/09/18 14:15

Analytical Laboratory Report

Lab Sample ID: S92847.01
Sample Tag: SB-DH-RW-3-51(7-9)08082018
Collected Date/Time: 08/08/2018 13:55
Matrix: Soil
COC Reference: 111700

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 14:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	50	12674-11-2	
PCB-1242	1,200	330	1.4	ug/kg	50	53469-21-9	
PCB-1221	Not detected	330	0.92	ug/kg	50	11104-28-2	
PCB-1232	Not detected	330	1.4	ug/kg	50	11141-16-5	
PCB-1248	Not detected	330	2.3	ug/kg	50	12672-29-6	
PCB-1254	Not detected	330	0.90	ug/kg	50	11097-69-1	
PCB-1260	Not detected	330	1.0	ug/kg	50	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 14:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	50	12674-11-2	
PCB-1242	1,200	330	1.3	ug/kg	50	53469-21-9	
PCB-1221	Not detected	330	1.4	ug/kg	50	11104-28-2	
PCB-1232	Not detected	330	2.0	ug/kg	50	11141-16-5	
PCB-1248	Not detected	330	1.9	ug/kg	50	12672-29-6	
PCB-1254	Not detected	330	1.0	ug/kg	50	11097-69-1	
PCB-1260	Not detected	330	1.1	ug/kg	50	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S92847.02
Sample Tag: SB-DH-RW-3-51(9-11)08082018
Collected Date/Time: 08/08/2018 14:00
Matrix: Soil
COC Reference: 111700

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 15:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	30	12674-11-2	
PCB-1242	1,000	330	1.4	ug/kg	30	53469-21-9	
PCB-1221	Not detected	330	0.92	ug/kg	30	11104-28-2	
PCB-1232	Not detected	330	1.4	ug/kg	30	11141-16-5	
PCB-1248	Not detected	330	2.3	ug/kg	30	12672-29-6	
PCB-1254	Not detected	330	0.90	ug/kg	30	11097-69-1	
PCB-1260	Not detected	330	1.0	ug/kg	30	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 15:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	30	12674-11-2	
PCB-1242	900	330	1.3	ug/kg	30	53469-21-9	
PCB-1221	Not detected	330	1.4	ug/kg	30	11104-28-2	
PCB-1232	Not detected	330	2.0	ug/kg	30	11141-16-5	
PCB-1248	Not detected	330	1.9	ug/kg	30	12672-29-6	
PCB-1254	Not detected	330	1.0	ug/kg	30	11097-69-1	
PCB-1260	Not detected	330	1.1	ug/kg	30	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S92847.03
Sample Tag: SB-DH-RW-3-51(11-13)08082018
Collected Date/Time: 08/08/2018 14:05
Matrix: Soil
COC Reference: 111700

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 15:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	30	12674-11-2	
PCB-1242	1,000	330	1.4	ug/kg	30	53469-21-9	
PCB-1221	Not detected	330	0.92	ug/kg	30	11104-28-2	
PCB-1232	Not detected	330	1.4	ug/kg	30	11141-16-5	
PCB-1248	Not detected	330	2.3	ug/kg	30	12672-29-6	
PCB-1254	Not detected	330	0.90	ug/kg	30	11097-69-1	
PCB-1260	Not detected	330	1.0	ug/kg	30	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 15:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	30	12674-11-2	
PCB-1242	800	330	1.3	ug/kg	30	53469-21-9	
PCB-1221	Not detected	330	1.4	ug/kg	30	11104-28-2	
PCB-1232	Not detected	330	2.0	ug/kg	30	11141-16-5	
PCB-1248	Not detected	330	1.9	ug/kg	30	12672-29-6	
PCB-1254	Not detected	330	1.0	ug/kg	30	11097-69-1	
PCB-1260	Not detected	330	1.1	ug/kg	30	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S92847.04
Sample Tag: SB-DH-RW-3-51(13-15)08082018
Collected Date/Time: 08/08/2018 14:10
Matrix: Soil
COC Reference: 111700

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 14:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	50	12674-11-2	
PCB-1242	1,700	330	1.4	ug/kg	50	53469-21-9	
PCB-1221	Not detected	330	0.92	ug/kg	50	11104-28-2	
PCB-1232	Not detected	330	1.4	ug/kg	50	11141-16-5	
PCB-1248	Not detected	330	2.3	ug/kg	50	12672-29-6	
PCB-1254	Not detected	330	0.90	ug/kg	50	11097-69-1	
PCB-1260	Not detected	330	1.0	ug/kg	50	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 14:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	50	12674-11-2	
PCB-1242	1,600	330	1.3	ug/kg	50	53469-21-9	
PCB-1221	Not detected	330	1.4	ug/kg	50	11104-28-2	
PCB-1232	Not detected	330	2.0	ug/kg	50	11141-16-5	
PCB-1248	Not detected	330	1.9	ug/kg	50	12672-29-6	
PCB-1254	Not detected	330	1.0	ug/kg	50	11097-69-1	
PCB-1260	Not detected	330	1.1	ug/kg	50	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S92847.05
Sample Tag: SB-DH-RW-3-52(7-9)08082018
Collected Date/Time: 08/08/2018 15:45
Matrix: Soil
COC Reference: 111700

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Other / Misc.

Method: , Run Date: 08/13/18 09:45, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Analytical Laboratory Report

Lab Sample ID: S92847.06
Sample Tag: SB-DH-RW-3-52(9-11)08082018
Collected Date/Time: 08/08/2018 15:50
Matrix: Soil
COC Reference: 111700

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Other / Misc.

Method: , Run Date: 08/13/18 09:45, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Analytical Laboratory Report

Lab Sample ID: S92847.07
Sample Tag: SB-DH-RW-3-52(11-13)08082018
Collected Date/Time: 08/08/2018 16:45
Matrix: Soil
COC Reference: 111700

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Other / Misc.

Method: , Run Date: 08/13/18 09:45, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S92847.08
Sample Tag: SB-DH-RW-3-52(13-15)08082018
Collected Date/Time: 08/08/2018 16:50
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Other / Misc.

Method: , Run Date: 08/13/18 09:45, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S92847.09
Sample Tag: SB-DH-RW-3-52(15-17)08082018
Collected Date/Time: 08/08/2018 15:55
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Other / Misc.

Method: , Run Date: 08/13/18 09:45, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S92847.10
Sample Tag: SB-DH-RW-3-52(17-19)08082018
Collected Date/Time: 08/08/2018 16:00
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Other / Misc.

Method: , Run Date: 08/13/18 09:45, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S92847.11
Sample Tag: DUP-208082018
Collected Date/Time: 08/08/2018 00:01
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 12:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	1	12674-11-2	
PCB-1242	Not detected	330	1.4	ug/kg	1	53469-21-9	
PCB-1221	Not detected	330	0.92	ug/kg	1	11104-28-2	
PCB-1232	Not detected	330	1.4	ug/kg	1	11141-16-5	
PCB-1248	Not detected	330	2.3	ug/kg	1	12672-29-6	
PCB-1254	Not detected	330	0.90	ug/kg	1	11097-69-1	
PCB-1260	Not detected	330	1.0	ug/kg	1	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 12:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	1	12674-11-2	
PCB-1242	Not detected	330	1.3	ug/kg	1	53469-21-9	
PCB-1221	Not detected	330	1.4	ug/kg	1	11104-28-2	
PCB-1232	Not detected	330	2.0	ug/kg	1	11141-16-5	
PCB-1248	Not detected	330	1.9	ug/kg	1	12672-29-6	
PCB-1254	Not detected	330	1.0	ug/kg	1	11097-69-1	
PCB-1260	Not detected	330	1.1	ug/kg	1	11096-82-5	

Lab Sample ID: S92847.12
Sample Tag: SB-DH-RW-3-54(5-7)08092018
Collected Date/Time: 08/09/2018 10:30
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 15:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	10	12674-11-2	
PCB-1242	500	330	1.4	ug/kg	10	53469-21-9	
PCB-1221	Not detected	330	0.92	ug/kg	10	11104-28-2	
PCB-1232	Not detected	330	1.4	ug/kg	10	11141-16-5	
PCB-1248	Not detected	330	2.3	ug/kg	10	12672-29-6	
PCB-1254	Not detected	330	0.90	ug/kg	10	11097-69-1	
PCB-1260	Not detected	330	1.0	ug/kg	10	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 15:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	10	12674-11-2	
PCB-1242	400	330	1.3	ug/kg	10	53469-21-9	
PCB-1221	Not detected	330	1.4	ug/kg	10	11104-28-2	
PCB-1232	Not detected	330	2.0	ug/kg	10	11141-16-5	
PCB-1248	Not detected	330	1.9	ug/kg	10	12672-29-6	
PCB-1254	Not detected	330	1.0	ug/kg	10	11097-69-1	
PCB-1260	Not detected	330	1.1	ug/kg	10	11096-82-5	

Lab Sample ID: S92847.13
Sample Tag: SB-DH-RW-3-54(7-9)08092018
Collected Date/Time: 08/09/2018 10:35
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 16:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	50	12674-11-2	
PCB-1242	2,300	330	1.4	ug/kg	50	53469-21-9	
PCB-1221	Not detected	330	0.92	ug/kg	50	11104-28-2	
PCB-1232	Not detected	330	1.4	ug/kg	50	11141-16-5	
PCB-1248	Not detected	330	2.3	ug/kg	50	12672-29-6	
PCB-1254	Not detected	330	0.90	ug/kg	50	11097-69-1	
PCB-1260	Not detected	330	1.0	ug/kg	50	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 16:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	50	12674-11-2	
PCB-1242	1,900	330	1.3	ug/kg	50	53469-21-9	
PCB-1221	Not detected	330	1.4	ug/kg	50	11104-28-2	
PCB-1232	Not detected	330	2.0	ug/kg	50	11141-16-5	
PCB-1248	Not detected	330	1.9	ug/kg	50	12672-29-6	
PCB-1254	Not detected	330	1.0	ug/kg	50	11097-69-1	
PCB-1260	Not detected	330	1.1	ug/kg	50	11096-82-5	

Lab Sample ID: S92847.14
Sample Tag: SB-DH-RW-3-54(9-11)08092018
Collected Date/Time: 08/09/2018 10:40
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 13:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	10	12674-11-2	
PCB-1242	500	330	1.4	ug/kg	10	53469-21-9	
PCB-1221	Not detected	330	0.92	ug/kg	10	11104-28-2	
PCB-1232	Not detected	330	1.4	ug/kg	10	11141-16-5	
PCB-1248	Not detected	330	2.3	ug/kg	10	12672-29-6	
PCB-1254	Not detected	330	0.90	ug/kg	10	11097-69-1	
PCB-1260	Not detected	330	1.0	ug/kg	10	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 13:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	10	12674-11-2	
PCB-1242	500	330	1.3	ug/kg	10	53469-21-9	
PCB-1221	Not detected	330	1.4	ug/kg	10	11104-28-2	
PCB-1232	Not detected	330	2.0	ug/kg	10	11141-16-5	
PCB-1248	Not detected	330	1.9	ug/kg	10	12672-29-6	
PCB-1254	Not detected	330	1.0	ug/kg	10	11097-69-1	
PCB-1260	Not detected	330	1.1	ug/kg	10	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S92847.15
Sample Tag: SB-DH-RW-3-54(11-13)08092018
Collected Date/Time: 08/09/2018 10:45
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 16:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000	1.2	ug/kg	300	12674-11-2	Y
PCB-1242	11,000	2,000	1.4	ug/kg	300	53469-21-9	Y
PCB-1221	Not detected	2,000	0.92	ug/kg	300	11104-28-2	Y
PCB-1232	Not detected	2,000	1.4	ug/kg	300	11141-16-5	Y
PCB-1248	Not detected	2,000	2.3	ug/kg	300	12672-29-6	Y
PCB-1254	Not detected	2,000	0.90	ug/kg	300	11097-69-1	Y
PCB-1260	Not detected	2,000	1.0	ug/kg	300	11096-82-5	Y

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 16:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000	1.4	ug/kg	300	12674-11-2	Y
PCB-1242	9,000	2,000	1.3	ug/kg	300	53469-21-9	Y
PCB-1221	Not detected	2,000	1.4	ug/kg	300	11104-28-2	Y
PCB-1232	Not detected	2,000	2.0	ug/kg	300	11141-16-5	Y
PCB-1248	Not detected	2,000	1.9	ug/kg	300	12672-29-6	Y
PCB-1254	Not detected	2,000	1.0	ug/kg	300	11097-69-1	Y
PCB-1260	Not detected	2,000	1.1	ug/kg	300	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S92847.16
Sample Tag: SB-DH-RW-3-54(13-15)08092018
Collected Date/Time: 08/09/2018 10:50
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 12:42, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	1	12674-11-2	
PCB-1242	Not detected	330	1.4	ug/kg	1	53469-21-9	
PCB-1221	Not detected	330	0.92	ug/kg	1	11104-28-2	
PCB-1232	Not detected	330	1.4	ug/kg	1	11141-16-5	
PCB-1248	Not detected	330	2.3	ug/kg	1	12672-29-6	
PCB-1254	Not detected	330	0.90	ug/kg	1	11097-69-1	
PCB-1260	Not detected	330	1.0	ug/kg	1	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 12:42, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	1	12674-11-2	
PCB-1242	Not detected	330	1.3	ug/kg	1	53469-21-9	
PCB-1221	Not detected	330	1.4	ug/kg	1	11104-28-2	
PCB-1232	Not detected	330	2.0	ug/kg	1	11141-16-5	
PCB-1248	Not detected	330	1.9	ug/kg	1	12672-29-6	
PCB-1254	Not detected	330	1.0	ug/kg	1	11097-69-1	
PCB-1260	Not detected	330	1.1	ug/kg	1	11096-82-5	

Lab Sample ID: S92847.17
Sample Tag: SB-DH-RW-3-53(9-11)08092018
Collected Date/Time: 08/09/2018 12:10
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Other / Misc.

Method: , Run Date: 08/13/18 09:45, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Analytical Laboratory Report

Lab Sample ID: S92847.18
Sample Tag: SB-DH-RW-3-53(11-13)08092018
Collected Date/Time: 08/09/2018 12:15
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
4	4oz Glass	None	Yes	4.2	IR

Other / Misc.

Method: , Run Date: 08/13/18 09:45, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S92847.19
Sample Tag: SB-DH-RW-3-53(11-13)08092018 MS
Collected Date/Time: 08/09/2018 12:15
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
4	4oz Glass	None	Yes	4.2	IR

Other / Misc.

Method: , Run Date: 08/13/18 09:45, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S92847.20
Sample Tag: SB-DH-RW-3-53(11-13)08092018 MSD
Collected Date/Time: 08/09/2018 12:15
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
4	4oz Glass	None	Yes	4.2	IR

Other / Misc.

Method: , Run Date: 08/13/18 09:45, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S92847.21
Sample Tag: SB-DH-RW-3-53(13-15)08092018
Collected Date/Time: 08/09/2018 12:20
Matrix: Soil
COC Reference: 111702

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Other / Misc.

Method: , Run Date: 08/13/18 09:45, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Analytical Laboratory Report

Lab Sample ID: S92847.22
Sample Tag: SB-DH-RW-3-53(15-17)08092018
Collected Date/Time: 08/09/2018 12:25
Matrix: Soil
COC Reference: 111702

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Other / Misc.

Method: , Run Date: 08/13/18 09:45, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Analytical Laboratory Report

Lab Sample ID: S92847.23
Sample Tag: EB-308092018
Collected Date/Time: 08/09/2018 14:15
Matrix: Water
COC Reference: 111702

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB	Completed	SW3510C	08/15/18 18:00	PLB	

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/16/18 17:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	0.1	0.013	ug/L	1	12674-11-2	
PCB-1242	Not detected	0.1	0.012	ug/L	1	53469-21-9	
PCB-1221	Not detected	0.1	0.024	ug/L	1	11104-28-2	
PCB-1232	Not detected	0.1	0.020	ug/L	1	11141-16-5	
PCB-1248	Not detected	0.1	0.043	ug/L	1	12672-29-6	
PCB-1254	Not detected	0.1	0.032	ug/L	1	11097-69-1	
PCB-1260	Not detected	0.1	0.012	ug/L	1	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/16/18 17:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	0.1	0.026	ug/L	1	12674-11-2	
PCB-1242	Not detected	0.1	0.012	ug/L	1	53469-21-9	
PCB-1221	Not detected	0.1	0.025	ug/L	1	11104-28-2	
PCB-1232	Not detected	0.1	0.019	ug/L	1	11141-16-5	
PCB-1248	Not detected	0.1	0.041	ug/L	1	12672-29-6	
PCB-1254	Not detected	0.1	0.050	ug/L	1	11097-69-1	
PCB-1260	Not detected	0.1	0.019	ug/L	1	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S92847
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: RACER Buick City
Submitted: 08/10/2018 15:20 Login User: MMC

Attention: Micki Maki
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1909 FAX: 248-994-2241
Email: micki.maki@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.2
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 3

111700

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki / Megan Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Drive STE 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-994-2283 FAX NO.: 248-994
P.O. NO.: B0064410.2018.01905
E-MAIL ADDRESS: megan.humphrey@arcadis.com
QUOTE NO.: WA121

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kaitlyn Vort Kaitlyn Vort
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER 10 working days
DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☒ LEVEL IV ☒ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	TCLP PCB VOC SVOC Metals Reactivity Corrosivity Ignitability	PCB	% Solids	Special Instructions
92846.01	8/7/18	1125	SB-81-EX-WC 08072018	S	1	1							1			
.02	8/7/18	1540	70-101/3-EX-WC 08072018	S	1	1							1			
.03	8/8/18	0935	AOI10-EX-WC1 08082018	S	1	1							1			
.04	8/8/18	1055	AOI10-EX-WC2 08082018	S	1	1							1			
92847.01	8/8/18	1355	SB-DH-RW-3-51(7-9)08082018	S	2	2								1	1	
.02	8/8/18	1400	SB-DH-RW-3-51(9-11)08082018	S	2	2								1	1	
.03	8/8/18	1405	SB-DH-RW-3-51(11-13)08082018	S	2	2								1	1	
.04	8/8/18	1410	SB-DH-RW-3-51(13-15)08082018	S	2	2								1	1	
92846.05	8/8/18	1415	DH-RW-3 Ex 3-WC 08082018	S	1	1							1			
92847.05	8/8/18	1545	SB-DH-RW-3-52(7-9)08082018	S	2	2								1	1	**HOLD**
.06	8/8/18	1550	SB-DH-RW-3-52(9-11)08082018	S	2	2								1	1	**HOLD**
.07	8/8/18	1645	SB-DH-RW-3-52(11-13)08082018	S	2	2								1	1	**HOLD**

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kaitlyn Vort Arcadis ☒ Sampler	8/9/18	1900	
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage	8/9/18	1900	
RELINQUISHED BY: SIGNATURE/ORGANIZATION		8/10/18	1300	
RECEIVED BY: SIGNATURE/ORGANIZATION	Meg	8/10/18	13	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Meg	8-10-18	1520	
RECEIVED BY: SIGNATURE/ORGANIZATION		8/10/18	1520	

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.2

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

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www.meritlabs.com

C.O.C. PAGE # 2 OF 3

111701

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki / Megan Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Drive STE 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248 994 2283 FAX NO.: 248 994 2241 P.O. NO.: B006410.2018.01905
E-MAIL ADDRESS: megan.humphrey@arcadis.com QUOTE NO.: WA121

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kaitlyn Voet Kaitlyn Voet

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER 10 working days

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☒ LEVEL IV ☒ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	TCLP PCB, VOC, SVOC, Metals, Reactivity, Corrosivity, Ignitability	PCB	% Solids	Special Instructions
92847.08	8/8/18	1650	SB-DH-RW-3-52(13-15)08082018	S	2	2								1	1	★ HOLD ★
.09	8/8/18	1555	SB-DH-RW-3-52(15-17)08082018	S	2	2								1	1	★★ HOLD ★★
.10	8/8/18	1600	SB-DH-RW-3-52(17-19)08082018	S	2	2								1	1	★★ HOLD ★★
.11	8/8/18	—	DUP-2 08082018	S	2	2								1	1	
.12	8/9/18	1030	SB-DH-RW-3-54(5-7)08092018	S	2	2								1	1	
.13	8/9/18	1035	SB-DH-RW-3-54(7-9)08092018	S	2	2								1	1	
.14	8/9/18	1040	SB-DH-RW-3-54(9-11)08092018	S	2	2								1	1	
.15	8/9/18	1045	SB-DH-RW-3-54(11-13)08092018	S	2	2								1	1	
.16	8/9/18	1050	SB-DH-RW-3-54(13-15)08092018	S	2	2								1	1	
92846.06	8/9/18	1055	DH-RW-3 Ex1-WC08092018	S	1	1							1			
92847.17	8/9/18	1210	SB-DH-RW-3-53(9-11)08092018	S	2	2								1	1	★ HOLD ★
.18/.19/20	8/9/18	1215	SB-DH-RW-3-53(11-13)08092018	S	4	4								3	1	MS/MSD ★ HOLD ★

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kaitlyn Voet Arcadis ☒ Sampler	DATE 8/9/18	TIME 1900
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage	DATE 8/9/18	TIME 1900
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 8/10/18	TIME 1300
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 8/10/18	TIME 1520
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 8/10/18	TIME 1300
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 8-16-18	TIME 13

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.2

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 3 OF 3

111702

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki / Megan Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Drive STE500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-994-2283 FAX NO.: 248-994 2241 P.O. NO.: 80004410,2018.01905
E-MAIL ADDRESS: megan.humphrey@arcadis.com QUOTE NO.: WA 121

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kaitlyn Vogt Kaitlyn Vogt

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER 10 working days

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☒ LEVEL IV ☒ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB	% Solids	Special Instructions
928472[illegible]	8/9/18	1220	SB-DH-RW-3-53(13-15)08092018	S	2	2							1	1	★HOLD★
.22	8/9/18	1225	SB-DH-RW-3-53(15-17)08092018	S	2	2							1	1	★HOLD★
.23	8/9/18	1415	EB-3 08092018	W	2	2							2		

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kaitlyn Vogt Arcadis (Sampler)	DATE 8/9/18	TIME 1900	
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage	DATE 8/9/18	TIME 1900	
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 8/10/18	TIME 13[illegible]	
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 8-10-18	TIME 13[illegible]	

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 8/10/18	TIME 1520	
RECEIVED BY: SIGNATURE/ORGANIZATION	M Metcalf	DATE 8/10/18	TIME 1520	

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.2

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S99915.01(01)
Generated on 04/01/2019

Report to

Attention: Kristen VanDenBerge
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: n/a FAX: 248-994-2241
Email: kristen.Vandenberge@arcadis.com

Addtional Contacts: Micki Maki, Megan Humphrey, Erin Kozak

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S99915.01-S99915.16
Project: B0064410.2019.03100 / Buick City RACER
Collected Date: 03/14/2019
Submitted Date/Time: 03/15/2019 08:15
Sampled by: Austin Westhuis
P.O. #: B0064410.2019.03100

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
E335.4/SM4500-CN	EPA Method 335.4 Revision 1.0 / Standard Method 4500-CN E 20th Edition
E608.3	EPA Method 608.3 December 2016
N/A	Not Applicable
SM2540B	Standard Method 2540 B 2011
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3510C	SW 846 Method 3510C Revision 3 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW5030C/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5030C Revision 3 May 2003
SW5035A/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5035A Revision 1 July 2002
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW7471B	SW 846 Method 7471B Revision 2 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8260B - SIM	SW 846 Method 8260B Revision 2 December 1996 SIMs
SW8270D	SW 846 Method 8270D Revision 4 February 2007

Sample Summary (16 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S99915.01	SB-81-21(1-3)_03142019	Soil	03/14/19 11:30
S99915.02	SB-81-21(9.5-11.5)_03142019	Soil	03/14/19 11:40
S99915.03	EB-01(03142019)	Groundwater	03/14/19 14:50
S99915.04	SB-10-33(03142019)	Groundwater	03/14/19 13:40
S99915.05	SB-81-22(1-3)_03142019	Soil	03/14/19 16:20
S99915.06	SB-81-22(11-13)_03142019	Soil	03/14/19 17:45
S99915.07	SB-10-32(03142019)	Groundwater	03/14/19 15:40
S99915.08	SB-10-30(03142019)	Groundwater	03/14/19 17:00
S99915.09	SB-10-30(1-3)_03142019	Soil	03/14/19 11:40
S99915.10	SB-10-30(8-10)_03142019	Soil	03/14/19 12:20
S99915.11	SB-10-32(1-3)_03142019	Soil	03/14/19 10:35
S99915.12	SB-10-32(7-9)_03142019	Soil	03/14/19 10:40
S99915.13	SB-10-32(10-12)_03142019	Soil	03/14/19 10:40
S99915.14	Dup-02(03142019)	Soil	03/14/19 00:01
S99915.15	Trip Blank	Methanol	03/14/19 00:01
S99915.16	Trip Blank	Water	03/14/19 00:01

Analytical Laboratory Report

Lab Sample ID: S99915.01
Sample Tag: SB-81-21(1-3)_03142019
Collected Date/Time: 03/14/2019 11:30
Matrix: Soil
COC Reference: 109067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/20/19 11:00	CCM	
BNA Extraction*	Completed	SW3546	03/19/19 16:41	ANW	
Extraction, PCB*	Completed	SW3546	03/19/19 13:44	ANW	
Mercury Digestion	Completed	SW7471B	03/26/19 10:45	JRH	

Inorganics

Method: E335.4/SM4500-CN, Run Date: 03/16/19 13:04, Analyst: JDP

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide*	Not detected	0.05	0.01	mg/kg	22	57-12-5	

Method: SM2540B, Run Date: 03/15/19 15:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Metals

Method: SW6020A, Run Date: 03/20/19 12:49, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Antimony	Not detected	0.50		mg/kg	215	7440-36-0	
Arsenic	5.55	0.20		mg/kg	215	7440-38-2	
Barium	67.0	1.0		mg/kg	215	7440-39-3	
Beryllium	0.23	0.20		mg/kg	215	7440-41-7	
Cadmium	0.43	0.20		mg/kg	215	7440-43-9	
Chromium	44.0	0.50		mg/kg	215	7440-47-3	
Cobalt	4.13	0.50		mg/kg	215	7440-48-4	
Copper	59.5	0.50		mg/kg	215	7440-50-8	
Lead	296	0.30		mg/kg	215	7439-92-1	
Manganese	393	0.50		mg/kg	215	7439-96-5	
Nickel	26.3	0.50		mg/kg	215	7440-02-0	
Selenium	Not detected	0.40		mg/kg	215	7782-49-2	
Silver	Not detected	0.20		mg/kg	215	7440-22-4	
Thallium	Not detected	0.20		mg/kg	215	7440-28-0	
Vanadium	9.16	0.50		mg/kg	215	7440-62-2	
Zinc	101	0.50		mg/kg	215	7440-66-6	

Method: SW7471B, Run Date: 03/26/19 15:40, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	8.036	0.050		mg/kg	2567	7439-97-6	

Lab Sample ID: S99915.01 (continued)
Sample Tag: SB-81-21(1-3)_03142019

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/19/19 15:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/22/19 07:39, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330	110	ug/kg	6	83-32-9	
Acenaphthylene	Not detected	330	96	ug/kg	6	208-96-8	
Anthracene	Not detected	330	98	ug/kg	6	120-12-7	
4-Bromophenyl phenyl ether	Not detected	330	96	ug/kg	6	101-55-3	
di-n-Butyl phthalate	Not detected	330	110	ug/kg	6	84-74-2	
Benzo(a)anthracene	560	330	110	ug/kg	6	56-55-3	
Benzo(a)pyrene	510	330	110	ug/kg	6	50-32-8	
Benzo(b)fluoranthene	590	330	100	ug/kg	6	205-99-2	
Benzo(ghi)perylene	Not detected	330	130	ug/kg	6	191-24-2	
Benzo(k)fluoranthene	500	330	120	ug/kg	6	207-08-9	
Butyl benzyl phthalate	380	330	100	ug/kg	6	85-68-7	
2-Chloronaphthalene	Not detected	330	89	ug/kg	6	91-58-7	
2-Chlorophenol	Not detected	330	77	ug/kg	6	95-57-8	
4-Chloro-3-methylphenol	Not detected	330	82	ug/kg	6	59-50-7	
4-Chloroaniline	Not detected	670	72	ug/kg	6	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	330	94	ug/kg	6	7005-72-3	
bis(2-Chloroethoxy)methane	Not detected	330	91	ug/kg	6	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330	88	ug/kg	6	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330	91	ug/kg	6	108-60-1	
Chrysene	630	330	100	ug/kg	6	218-01-9	
2,4-Dichlorophenol	Not detected	330	72	ug/kg	6	120-83-2	
2,4-Dimethylphenol	Not detected	330	150	ug/kg	6	105-67-9	
2,4-Dinitrophenol	Not detected	670	23	ug/kg	6	51-28-5	
2,4-Dinitrotoluene	Not detected	330	86	ug/kg	6	121-14-2	
2,6-Dinitrotoluene	Not detected	330	71	ug/kg	6	606-20-2	
3,3'-Dichlorobenzidine	Not detected	670	55	ug/kg	6	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	670	38	ug/kg	6	534-52-1	
Dibenzo(ah)anthracene	Not detected	330	140	ug/kg	6	53-70-3	
Dibenzofuran	Not detected	330	88	ug/kg	6	132-64-9	
Diethyl phthalate	Not detected	330	100	ug/kg	6	84-66-2	
Dimethyl phthalate	Not detected	330	99	ug/kg	6	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	330	140	ug/kg	6	117-81-7	
Fluoranthene	1,190	330	98	ug/kg	6	206-44-0	
Fluorene	Not detected	330	97	ug/kg	6	86-73-7	
Hexachlorobenzene	Not detected	330	89	ug/kg	6	118-74-1	
Hexachlorobutadiene	Not detected	330	78	ug/kg	6	87-68-3	
Hexachlorocyclopentadiene	Not detected	330	52	ug/kg	6	77-47-4	
Hexachloroethane	Not detected	330	73	ug/kg	6	67-72-1	

Lab Sample ID: S99915.01 (continued)
Sample Tag: SB-81-21(1-3)_03142019

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/22/19 07:39, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Indeno(1,2,3-cd)pyrene	Not detected	330	130	ug/kg	6	193-39-5	
Isophorone	Not detected	330	82	ug/kg	6	78-59-1	
2-Methylnaphthalene	Not detected	330	86	ug/kg	6	91-57-6	
2-Methylphenol (o-Cresol)	Not detected	330	110	ug/kg	6	95-48-7	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330	170	ug/kg	6	3/4-CRESOL	
2-Nitroaniline	Not detected	670	76	ug/kg	6	88-74-4	
2-Nitrophenol	Not detected	330	61	ug/kg	6	88-75-5	
3-Nitroaniline	Not detected	670	68	ug/kg	6	99-09-2	
4-Nitroaniline	Not detected	670	65	ug/kg	6	100-01-6	
4-Nitrophenol	Not detected	670	46	ug/kg	6	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	330	100	ug/kg	6	621-64-7	
N-Nitrosodiphenylamine	Not detected	330	110	ug/kg	6	86-30-6	
Naphthalene	Not detected	330	90	ug/kg	6	91-20-3	
Nitrobenzene	Not detected	200	92	ug/kg	6	98-95-3	
di-n-Octyl phthalate	Not detected	330	120	ug/kg	6	117-84-0	
Pentachlorophenol	Not detected	670	39	ug/kg	6	87-86-5	
Phenanthrene	1,010	330	120	ug/kg	6	85-01-8	
Phenol	Not detected	330	76	ug/kg	6	108-95-2	
Pyrene	980	330	110	ug/kg	6	129-00-0	
2,4,5-Trichlorophenol	Not detected	330	74	ug/kg	6	95-95-4	
2,4,6-Trichlorophenol	Not detected	330	68	ug/kg	6	88-06-2	

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/22/19 07:39, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzaldehyde	Not detected	330	75	ug/kg	6	100-52-7	
Acetophenone	Not detected	330	78	ug/kg	6	98-86-2	
Caprolactam	Not detected	330	50	ug/kg	6	105-60-2	
Carbazole	Not detected	330	89	ug/kg	6	86-74-8	
1,1'-Biphenyl	Not detected	330	95	ug/kg	6	92-52-4	
Atrazine	Not detected	330	94	ug/kg	6	1912-24-9	

Organics - Volatiles

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/16/19 01:13, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	100		ug/kg	57.6	76-13-1	
Acetone	Not detected	860		ug/kg	57.6	67-64-1	
Carbon disulfide	Not detected	300		ug/kg	57.6	75-15-0	
Methyl Acetate	Not detected	3,000		ug/kg	57.6	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	57.6	1634-04-4	
2-Butanone (MEK)	Not detected	860		ug/kg	57.6	78-93-3	
Dichlorodifluoromethane	Not detected	60		ug/kg	57.6	75-71-8	
Chloromethane	Not detected	300		ug/kg	57.6	74-87-3	
Vinyl chloride	Not detected	100		ug/kg	57.6	75-01-4	
Bromomethane	Not detected	300		ug/kg	57.6	74-83-9	
Chloroethane	Not detected	300		ug/kg	57.6	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	57.6	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	57.6	75-35-4	
Methylene chloride	Not detected	300		ug/kg	57.6	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	57.6	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	57.6	75-34-3	

Lab Sample ID: S99915.01 (continued)
Sample Tag: SB-81-21(1-3)_03142019

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/16/19 01:13, Analyst: JML (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	60		ug/kg	57.6	156-59-2	
Chloroform	Not detected	60		ug/kg	57.6	67-66-3	
1,1,1-Trichloroethane	Not detected	60		ug/kg	57.6	71-55-6	
Cyclohexane	Not detected	140		ug/kg	57.6	110-82-7	X
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	57.6	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	57.6	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	57.6	56-23-5	
Benzene	Not detected	60		ug/kg	57.6	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	57.6	107-06-2	
Trichloroethene	Not detected	60		ug/kg	57.6	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	57.6	78-87-5	
Bromodichloromethane	Not detected	60		ug/kg	57.6	75-27-4	
Methyl cyclohexane	300	60		ug/kg	57.6	108-87-2	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	57.6	10061-01-5	
Toluene	100	60		ug/kg	57.6	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	57.6	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	57.6	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	57.6	127-18-4	
Dibromochloromethane	Not detected	60		ug/kg	57.6	124-48-1	
1,2-Dibromoethane	Not detected	60		ug/kg	57.6	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	57.6	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	57.6	79-34-5	
Ethylbenzene	Not detected	60		ug/kg	57.6	100-41-4	
p,m-Xylene	100	100		ug/kg	57.6		
o-Xylene	90	60		ug/kg	57.6	95-47-6	
Styrene	Not detected	60		ug/kg	57.6	100-42-5	
Isopropylbenzene	Not detected	60		ug/kg	57.6	98-82-8	
Bromoform	Not detected	60		ug/kg	57.6	75-25-2	
1,3-Dichlorobenzene	Not detected	60		ug/kg	57.6	541-73-1	
1,4-Dichlorobenzene	Not detected	60		ug/kg	57.6	106-46-7	
1,2-Dichlorobenzene	Not detected	60		ug/kg	57.6	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	60		ug/kg	57.6	96-12-8	
1,2,4-Trichlorobenzene	Not detected	100		ug/kg	57.6	120-82-1	
n-Propylbenzene	Not detected	60		ug/kg	57.6	103-65-1	
Naphthalene	180	60		ug/kg	57.6	91-20-3	

X-Elevated reporting limit due to matrix interference
M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S99915.02
Sample Tag: SB-81-21(9.5-11.5)_03142019
Collected Date/Time: 03/14/2019 11:40
Matrix: Soil
COC Reference: 109067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/20/19 11:00	CCM	
BNA Extraction*	Completed	SW3546	03/19/19 16:41	ANW	
Extraction, PCB*	Completed	SW3546	03/19/19 13:44	ANW	
Mercury Digestion	Completed	SW7471B	03/26/19 10:45	JRH	

Inorganics

Method: E335.4/SM4500-CN, Run Date: 03/16/19 13:08, Analyst: JDP

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide*	Not detected	0.05	0.01	mg/kg	22	57-12-5	

Method: SM2540B, Run Date: 03/15/19 15:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1	1	%	1		

Metals

Method: SW6020A, Run Date: 03/20/19 13:04, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Antimony	Not detected	0.50		mg/kg	227	7440-36-0	
Arsenic	1.85	0.20		mg/kg	227	7440-38-2	
Barium	23.6	1.0		mg/kg	227	7440-39-3	
Beryllium	0.20	0.20		mg/kg	227	7440-41-7	
Cadmium	Not detected	0.20		mg/kg	227	7440-43-9	
Chromium	3.81	0.50		mg/kg	227	7440-47-3	
Cobalt	2.92	0.50		mg/kg	227	7440-48-4	
Copper	12.3	0.50		mg/kg	227	7440-50-8	
Lead	31.3	0.30		mg/kg	227	7439-92-1	
Manganese	375	0.50		mg/kg	227	7439-96-5	
Nickel	5.26	0.50		mg/kg	227	7440-02-0	
Selenium	Not detected	0.40		mg/kg	227	7782-49-2	
Silver	Not detected	0.20		mg/kg	227	7440-22-4	
Thallium	Not detected	0.20		mg/kg	227	7440-28-0	
Vanadium	4.99	0.50		mg/kg	227	7440-62-2	
Zinc	17.2	0.50		mg/kg	227	7440-66-6	

Method: SW7471B, Run Date: 03/26/19 15:42, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.144	0.050		mg/kg	56	7439-97-6	

Lab Sample ID: S99915.02 (continued)
Sample Tag: SB-81-21(9.5-11.5)_03142019

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/19/19 16:53, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	5	12674-11-2	
PCB-1242	Not detected	330		ug/kg	5	53469-21-9	
PCB-1221	Not detected	330		ug/kg	5	11104-28-2	
PCB-1232	Not detected	330		ug/kg	5	11141-16-5	
PCB-1248	Not detected	330		ug/kg	5	12672-29-6	
PCB-1254	Not detected	330		ug/kg	5	11097-69-1	
PCB-1260	Not detected	330		ug/kg	5	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/22/19 00:54, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330	110	ug/kg	6	83-32-9	
Acenaphthylene	Not detected	330	96	ug/kg	6	208-96-8	
Anthracene	Not detected	330	98	ug/kg	6	120-12-7	
4-Bromophenyl phenyl ether	Not detected	330	96	ug/kg	6	101-55-3	
di-n-Butyl phthalate	Not detected	330	110	ug/kg	6	84-74-2	
Benzo(a)anthracene	Not detected	330	110	ug/kg	6	56-55-3	
Benzo(a)pyrene	Not detected	330	110	ug/kg	6	50-32-8	
Benzo(b)fluoranthene	Not detected	330	100	ug/kg	6	205-99-2	
Benzo(ghi)perylene	Not detected	330	130	ug/kg	6	191-24-2	
Benzo(k)fluoranthene	Not detected	330	120	ug/kg	6	207-08-9	
Butyl benzyl phthalate	Not detected	330	100	ug/kg	6	85-68-7	
2-Chloronaphthalene	Not detected	330	89	ug/kg	6	91-58-7	
2-Chlorophenol	Not detected	330	77	ug/kg	6	95-57-8	
4-Chloro-3-methylphenol	Not detected	330	82	ug/kg	6	59-50-7	
4-Chloroaniline	Not detected	670	72	ug/kg	6	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	330	94	ug/kg	6	7005-72-3	
bis(2-Chloroethoxy)methane	Not detected	330	91	ug/kg	6	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330	88	ug/kg	6	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330	91	ug/kg	6	108-60-1	
Chrysene	Not detected	330	100	ug/kg	6	218-01-9	
2,4-Dichlorophenol	Not detected	330	72	ug/kg	6	120-83-2	
2,4-Dimethylphenol	Not detected	330	150	ug/kg	6	105-67-9	
2,4-Dinitrophenol	Not detected	670	23	ug/kg	6	51-28-5	
2,4-Dinitrotoluene	Not detected	330	86	ug/kg	6	121-14-2	
2,6-Dinitrotoluene	Not detected	330	71	ug/kg	6	606-20-2	
3,3'-Dichlorobenzidine	Not detected	670	55	ug/kg	6	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	670	38	ug/kg	6	534-52-1	
Dibenzo(ah)anthracene	Not detected	330	140	ug/kg	6	53-70-3	
Dibenzofuran	Not detected	330	88	ug/kg	6	132-64-9	
Diethyl phthalate	Not detected	330	100	ug/kg	6	84-66-2	
Dimethyl phthalate	Not detected	330	99	ug/kg	6	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	330	140	ug/kg	6	117-81-7	
Fluoranthene	Not detected	330	98	ug/kg	6	206-44-0	
Fluorene	Not detected	330	97	ug/kg	6	86-73-7	
Hexachlorobenzene	Not detected	330	89	ug/kg	6	118-74-1	
Hexachlorobutadiene	Not detected	330	78	ug/kg	6	87-68-3	
Hexachlorocyclopentadiene	Not detected	330	52	ug/kg	6	77-47-4	
Hexachloroethane	Not detected	330	73	ug/kg	6	67-72-1	

Lab Sample ID: S99915.02 (continued)
Sample Tag: SB-81-21(9.5-11.5)_03142019

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/22/19 00:54, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Indeno(1,2,3-cd)pyrene	Not detected	330	130	ug/kg	6	193-39-5	
Isophorone	Not detected	330	82	ug/kg	6	78-59-1	
2-Methylnaphthalene	Not detected	330	86	ug/kg	6	91-57-6	
2-Methylphenol (o-Cresol)	Not detected	330	110	ug/kg	6	95-48-7	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330	170	ug/kg	6	3/4-CRESOL	
2-Nitroaniline	Not detected	670	76	ug/kg	6	88-74-4	
2-Nitrophenol	Not detected	330	61	ug/kg	6	88-75-5	
3-Nitroaniline	Not detected	670	68	ug/kg	6	99-09-2	
4-Nitroaniline	Not detected	670	65	ug/kg	6	100-01-6	
4-Nitrophenol	Not detected	670	46	ug/kg	6	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	330	100	ug/kg	6	621-64-7	
N-Nitrosodiphenylamine	Not detected	330	110	ug/kg	6	86-30-6	
Naphthalene	Not detected	330	90	ug/kg	6	91-20-3	
Nitrobenzene	Not detected	200	92	ug/kg	6	98-95-3	
di-n-Octyl phthalate	Not detected	330	120	ug/kg	6	117-84-0	
Pentachlorophenol	Not detected	670	39	ug/kg	6	87-86-5	
Phenanthrene	Not detected	330	120	ug/kg	6	85-01-8	
Phenol	Not detected	330	76	ug/kg	6	108-95-2	
Pyrene	Not detected	330	110	ug/kg	6	129-00-0	
2,4,5-Trichlorophenol	Not detected	330	74	ug/kg	6	95-95-4	
2,4,6-Trichlorophenol	Not detected	330	68	ug/kg	6	88-06-2	

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/22/19 00:54, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzaldehyde	Not detected	330	75	ug/kg	6	100-52-7	
Acetophenone	Not detected	330	78	ug/kg	6	98-86-2	
Caprolactam	Not detected	330	50	ug/kg	6	105-60-2	
Carbazole	Not detected	330	89	ug/kg	6	86-74-8	
1,1'-Biphenyl	Not detected	330	95	ug/kg	6	92-52-4	
Atrazine	Not detected	330	94	ug/kg	6	1912-24-9	

Organics - Volatiles

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/16/19 01:31, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	100		ug/kg	56.7	76-13-1	
Acetone	Not detected	850		ug/kg	56.7	67-64-1	
Carbon disulfide	Not detected	300		ug/kg	56.7	75-15-0	
Methyl Acetate	Not detected	3,000		ug/kg	56.7	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	56.7	1634-04-4	
2-Butanone (MEK)	Not detected	850		ug/kg	56.7	78-93-3	
Dichlorodifluoromethane	Not detected	60		ug/kg	56.7	75-71-8	
Chloromethane	Not detected	300		ug/kg	56.7	74-87-3	
Vinyl chloride	Not detected	100		ug/kg	56.7	75-01-4	
Bromomethane	Not detected	300		ug/kg	56.7	74-83-9	
Chloroethane	Not detected	300		ug/kg	56.7	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	56.7	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	56.7	75-35-4	
Methylene chloride	Not detected	300		ug/kg	56.7	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	56.7	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	56.7	75-34-3	

Lab Sample ID: S99915.02 (continued)
Sample Tag: SB-81-21(9.5-11.5)_03142019

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/16/19 01:31, Analyst: JML (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	60		ug/kg	56.7	156-59-2	
Chloroform	Not detected	60		ug/kg	56.7	67-66-3	
1,1,1-Trichloroethane	Not detected	60		ug/kg	56.7	71-55-6	
Cyclohexane	Not detected	140		ug/kg	56.7	110-82-7	X
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	56.7	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	56.7	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	56.7	56-23-5	
Benzene	Not detected	60		ug/kg	56.7	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	56.7	107-06-2	
Trichloroethene	Not detected	60		ug/kg	56.7	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	56.7	78-87-5	
Bromodichloromethane	Not detected	60		ug/kg	56.7	75-27-4	
Methyl cyclohexane	110	60		ug/kg	56.7	108-87-2	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	56.7	10061-01-5	
Toluene	Not detected	60		ug/kg	56.7	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	56.7	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	56.7	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	56.7	127-18-4	
Dibromochloromethane	Not detected	60		ug/kg	56.7	124-48-1	
1,2-Dibromoethane	Not detected	60		ug/kg	56.7	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	56.7	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	56.7	79-34-5	
Ethylbenzene	Not detected	60		ug/kg	56.7	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	56.7		
o-Xylene	Not detected	60		ug/kg	56.7	95-47-6	
Styrene	Not detected	60		ug/kg	56.7	100-42-5	
Isopropylbenzene	Not detected	60		ug/kg	56.7	98-82-8	
Bromoform	Not detected	60		ug/kg	56.7	75-25-2	
1,3-Dichlorobenzene	Not detected	60		ug/kg	56.7	541-73-1	
1,4-Dichlorobenzene	Not detected	60		ug/kg	56.7	106-46-7	
1,2-Dichlorobenzene	Not detected	60		ug/kg	56.7	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	60		ug/kg	56.7	96-12-8	
1,2,4-Trichlorobenzene	Not detected	100		ug/kg	56.7	120-82-1	
n-Propylbenzene	Not detected	60		ug/kg	56.7	103-65-1	
Naphthalene	Not detected	60		ug/kg	56.7	91-20-3	

X-Elevated reporting limit due to matrix interference
M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S99915.03
Sample Tag: EB-01(03142019)
Collected Date/Time: 03/14/2019 14:50
Matrix: Groundwater
COC Reference: 109067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	5.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	E608.3	03/18/19 13:58	ANW	

Organics - PCBs/Pesticides

PCB, Method: E608.3, Run Date: 03/18/19 17:57, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	0.1		ug/L	1	12674-11-2	
PCB-1221	Not detected	0.1		ug/L	1	11104-28-2	
PCB-1232	Not detected	0.1		ug/L	1	11141-16-5	
PCB-1242	Not detected	0.1		ug/L	1	53469-21-9	
PCB-1248	Not detected	0.1		ug/L	1	12672-29-6	
PCB-1254	Not detected	0.1		ug/L	1	11097-69-1	
PCB-1260	Not detected	0.1		ug/L	1	11096-82-5	
PCB, Total*	Not detected	0.1		ug/L	1	1336-36-3	

Lab Sample ID: S99915.04
Sample Tag: SB-10-33(03142019)
Collected Date/Time: 03/14/2019 13:40
Matrix: Groundwater
COC Reference: 109067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.4	IR
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR
1	125ml Plastic	NaOH	Yes	5.4	IR
1	125ml Plastic	None	Yes	5.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	03/19/19 09:00	JML	
Metal Digestion	Completed	SW3015A	03/22/19 09:10	CCM	
Metal Digestion	Completed	SW3015A	03/22/19 09:10	CCM	
BNA Extraction	Completed	SW3510C	03/20/19 14:51	ANW	
Mercury Digestion*	Completed	SW7471B	03/26/19 09:00	JRH	
Mercury Digestion*	Completed	SW7471B	03/26/19 09:00	JRH	

Inorganics

Method: E335.4/SM4500-CN, Run Date: 03/19/19 13:18, Analyst: JDP

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide	0.038	0.004	0.001	mg/L	2	57-12-5	

Method: E335.4/SM4500-CN, Run Date: 03/19/19 14:31, Analyst: JDP

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide	0.037	0.004	0.001	mg/L	2	57-12-5	f

Metals

Method: SW6020A, Run Date: 03/22/19 12:17, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Antimony	Not detected	0.05		mg/L	25	7440-36-0	
Arsenic	Not detected	0.02		mg/L	25	7440-38-2	
Barium	1.56	0.05		mg/L	25	7440-39-3	
Beryllium	Not detected	0.01		mg/L	25	7440-41-7	
Cadmium	0.010	0.005		mg/L	25	7440-43-9	
Chromium	0.07	0.05		mg/L	25	7440-47-3	
Cobalt	Not detected	0.05		mg/L	25	7440-48-4	
Copper	0.71	0.05		mg/L	25	7440-50-8	
Lead	1.20	0.03		mg/L	25	7439-92-1	
Manganese	0.65	0.05		mg/L	25	7439-96-5	
Nickel	0.09	0.05		mg/L	25	7440-02-0	
Selenium	Not detected	0.05		mg/L	25	7782-49-2	
Silver	Not detected	0.005		mg/L	25	7440-22-4	
Thallium	Not detected	0.02		mg/L	25	7440-28-0	
Vanadium	Not detected	0.05		mg/L	25	7440-62-2	
Zinc	1.04	0.05		mg/L	25	7440-66-6	

f-Filtered and preserved in lab

Lab Sample ID: S99915.04 (continued)
Sample Tag: SB-10-33(03142019)

Method: SW6020A, Run Date: 03/22/19 12:19, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Antimony, Dissolved	0.009	0.005		mg/L	5	7440-36-0	f
Arsenic, Dissolved	0.005	0.002		mg/L	5	7440-38-2	f
Barium, Dissolved	0.860	0.005		mg/L	5	7440-39-3	f
Beryllium, Dissolved	Not detected	0.001		mg/L	5	7440-41-7	f
Cadmium, Dissolved	Not detected	0.0005		mg/L	5	7440-43-9	f
Chromium, Dissolved	0.005	0.005		mg/L	5	7440-47-3	f
Cobalt, Dissolved	Not detected	0.005		mg/L	5	7440-48-4	f
Copper, Dissolved	0.074	0.005		mg/L	5	7440-50-8	f
Lead, Dissolved	0.048	0.003		mg/L	5	7439-92-1	f
Manganese, Dissolved	0.109	0.005		mg/L	5	7439-96-5	f
Nickel, Dissolved	0.018	0.005		mg/L	5	7440-02-0	f
Selenium, Dissolved	Not detected	0.005		mg/L	5	7782-49-2	f
Silver, Dissolved	Not detected	0.0005		mg/L	5	7440-22-4	f
Thallium, Dissolved	Not detected	0.002		mg/L	5	7440-28-0	f
Vanadium, Dissolved	0.008	0.005		mg/L	5	7440-62-2	f
Zinc, Dissolved	0.045	0.005		mg/L	5	7440-66-6	f

Method: SW7471B, Run Date: 03/26/19 13:55, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury*	0.0010	0.0002		mg/L	2	7439-97-6	

Method: SW7471B, Run Date: 03/26/19 13:57, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury, Dissolved*	Not detected	0.0002		mg/L	2	7439-97-6	f

Organics - Semi-Volatiles

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/23/19 01:30, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzaldehyde	Not detected	5	0.58	ug/L	2	100-52-7	
Acetophenone	Not detected	5	0.48	ug/L	2	98-86-2	
Caprolactam	Not detected	10	0.53	ug/L	2	105-60-2	
Carbazole	Not detected	5	0.67	ug/L	2	86-74-8	
1,1'-Biphenyl	Not detected	5	0.57	ug/L	2	92-52-4	
Atrazine*	Not detected	3	0.59	ug/L	2	1912-24-9	

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/23/19 01:30, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	5	0.57	ug/L	2	83-32-9	
Acenaphthylene	Not detected	5	0.67	ug/L	2	208-96-8	
Anthracene	Not detected	5	0.69	ug/L	2	120-12-7	
4-Bromophenyl phenyl ether	Not detected	5	0.54	ug/L	2	101-55-3	
di-n-Butyl phthalate	Not detected	5	0.62	ug/L	2	84-74-2	
Benzo(a)anthracene	Not detected	1	0.79	ug/L	2	56-55-3	
Benzo(a)pyrene	Not detected	5	0.97	ug/L	2	50-32-8	
Benzo(b)fluoranthene	Not detected	1	0.76	ug/L	2	205-99-2	
Benzo(ghi)perylene	Not detected	5	0.95	ug/L	2	191-24-2	
Benzo(k)fluoranthene	Not detected	5	0.80	ug/L	2	207-08-9	
Butyl benzyl phthalate	Not detected	5	1.0	ug/L	2	85-68-7	
2-Chloronaphthalene	Not detected	5	0.54	ug/L	2	91-58-7	

f-Filtered and preserved in lab

Lab Sample ID: S99915.04 (continued)
Sample Tag: SB-10-33(03142019)

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/23/19 01:30, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Chlorophenol	Not detected	10	0.52	ug/L	2	95-57-8	
4-Chloro-3-methylphenol	Not detected	5	0.59	ug/L	2	59-50-7	
4-Chloroaniline	Not detected	10	0.56	ug/L	2	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	5	0.50	ug/L	2	7005-72-3	
bis(2-Chloroethoxy)methane	Not detected	5	0.59	ug/L	2	111-91-1	
bis(2-Chloroethyl)ether	Not detected	1	0.56	ug/L	2	111-44-4	
Chrysene	Not detected	1	0.59	ug/L	2	218-01-9	
2,4-Dichlorophenol	Not detected	10	0.60	ug/L	2	120-83-2	
2,4-Dimethylphenol	Not detected	5	0.70	ug/L	2	105-67-9	
2,4-Dinitrophenol	Not detected	25	0.17	ug/L	2	51-28-5	
2,4-Dinitrotoluene	Not detected	5	0.55	ug/L	2	121-14-2	
2,6-Dinitrotoluene	Not detected	5	0.60	ug/L	2	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	25	0.25	ug/L	2	534-52-1	
Dibenzo(ah)anthracene	Not detected	5	0.88	ug/L	2	53-70-3	
Dibenzofuran	Not detected	4	0.53	ug/L	2	132-64-9	
Diethyl phthalate	Not detected	5	0.70	ug/L	2	84-66-2	
Dimethyl phthalate	Not detected	5	0.62	ug/L	2	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	5	1.3	ug/L	2	117-81-7	
Fluoranthene	3	1	0.67	ug/L	2	206-44-0	
Fluorene	Not detected	5	0.63	ug/L	2	86-73-7	
Hexachlorocyclopentadiene	Not detected	5	0.29	ug/L	2	77-47-4	
Hexachloroethane	Not detected	5	0.53	ug/L	2	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	5	0.88	ug/L	2	193-39-5	
Isophorone	Not detected	5	0.61	ug/L	2	78-59-1	
2-Methylnaphthalene	Not detected	5	0.49	ug/L	2	91-57-6	
2-Methylphenol (o-Cresol)	Not detected	10	0.56	ug/L	2	95-48-7	
2-Nitroaniline	Not detected	25	0.49	ug/L	2	88-74-4	
2-Nitrophenol	Not detected	5	0.45	ug/L	2	88-75-5	
3-Nitroaniline	Not detected	25	0.47	ug/L	2	99-09-2	
4-Nitroaniline	Not detected	25	0.46	ug/L	2	100-01-6	
4-Nitrophenol	Not detected	25	0.63	ug/L	2	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	10	0.73	ug/L	2	621-64-7	
N-Nitrosodiphenylamine	Not detected	5	0.71	ug/L	2	86-30-6	
Naphthalene	Not detected	5	0.62	ug/L	2	91-20-3	
Nitrobenzene	Not detected	3	0.79	ug/L	2	98-95-3	
di-n-Octyl phthalate	Not detected	5	1.4	ug/L	2	117-84-0	
2,4,5-Trichlorophenol	Not detected	5	0.64	ug/L	2	95-95-4	
2,4,6-Trichlorophenol	Not detected	4	0.54	ug/L	2	88-06-2	
3,3'-Dichlorobenzidine	Not detected	10	1.5	ug/L	2	91-94-1	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	10	1.1	ug/L	2	3/4-CRESOL	
Pentachlorophenol	Not detected	5	0.41	ug/L	2	87-86-5	
Phenanthrene	4	2	0.71	ug/L	2	85-01-8	
Phenol	Not detected	5	0.59	ug/L	2	108-95-2	
Pyrene	Not detected	5	0.82	ug/L	2	129-00-0	
Hexachlorobenzene	Not detected	5	0.63	ug/L	2	118-74-1	
Hexachlorobutadiene	Not detected	5	0.58	ug/L	2	87-68-3	
bis(2-Chloroisopropyl)ether*	Not detected	5	0.65	ug/L	2	108-60-1	

Lab Sample ID: S99915.04 (continued)
Sample Tag: SB-10-33(03142019)

Organics - Volatiles

Method: SW8260B - SIM, Run Date: 03/25/19 15:59, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dioxane*	Not detected	1		ug/L	1	123-91-1	

TCL Volatile Organics 8260 PAL, Method: SW5030C/8260C, Run Date: 03/15/19 16:14, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	30		ug/L	1	76-13-1	
Acetone	30	20		ug/L	1	67-64-1	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Methyl Acetate	Not detected	10		ug/L	1	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
2-Butanone (MEK)	Not detected	20		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	1		ug/L	1	75-71-8	
Chloromethane	Not detected	1		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	2		ug/L	1	74-83-9	
Chloroethane	Not detected	1		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Chloroform	Not detected	1		ug/L	1	67-66-3	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
Cyclohexane	Not detected	1		ug/L	1	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	10		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	4	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Methyl cyclohexane	Not detected	20		ug/L	1	108-87-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	55	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Dibromochloromethane	Not detected	1		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
Ethylbenzene	1	1		ug/L	1	100-41-4	
p,m-Xylene*	11	2		ug/L	1		
o-Xylene	5	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	1		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	

Lab Sample ID: S99915.04 (continued)
Sample Tag: SB-10-33(03142019)

TCL Volatile Organics 8260 PAL, Method: SW5030C/8260C, Run Date: 03/15/19 16:14, Analyst: JML (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	1		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	2		ug/L	1	120-82-1	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Naphthalene	5	1		ug/L	1	91-20-3	

Lab Sample ID: S99915.05
Sample Tag: SB-81-22(1-3)_03142019
Collected Date/Time: 03/14/2019 16:20
Matrix: Soil
COC Reference: 109067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/20/19 11:00	CCM	
BNA Extraction*	Completed	SW3546	03/19/19 16:41	ANW	
BNA Extraction (Replicate 01)*	Completed	SW3546	03/25/19 15:00	ANW	
Extraction, PCB*	Completed	SW3546	03/19/19 13:44	ANW	
Mercury Digestion	Completed	SW7471B	03/26/19 10:45	JRH	

Inorganics

Method: E335.4/SM4500-CN, Run Date: 03/18/19 14:18, Analyst: JDP

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide*	Not detected	0.05	0.01	mg/kg	22	57-12-5	

Method: SM2540B, Run Date: 03/15/19 15:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Metals

Method: SW6020A, Run Date: 03/20/19 13:06, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Antimony	Not detected	0.50		mg/kg	214	7440-36-0	
Arsenic	4.61	0.20		mg/kg	214	7440-38-2	
Barium	52.2	1.0		mg/kg	214	7440-39-3	
Beryllium	0.23	0.20		mg/kg	214	7440-41-7	
Cadmium	0.76	0.20		mg/kg	214	7440-43-9	
Chromium	72.2	0.50		mg/kg	214	7440-47-3	
Cobalt	4.82	0.50		mg/kg	214	7440-48-4	
Copper	74.0	0.50		mg/kg	214	7440-50-8	
Lead	310	0.30		mg/kg	214	7439-92-1	
Manganese	614	0.50		mg/kg	214	7439-96-5	
Nickel	26.9	0.50		mg/kg	214	7440-02-0	
Selenium	Not detected	0.40		mg/kg	214	7782-49-2	
Silver	Not detected	0.20		mg/kg	214	7440-22-4	
Thallium	Not detected	0.20		mg/kg	214	7440-28-0	
Vanadium	13.5	0.50		mg/kg	214	7440-62-2	
Zinc	155	0.50		mg/kg	214	7440-66-6	

Method: SW7471B, Run Date: 03/26/19 15:44, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.172	0.050		mg/kg	61	7439-97-6	

Lab Sample ID: S99915.05 (continued)
Sample Tag: SB-81-22(1-3)_03142019

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/19/19 15:57, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	30	12674-11-2	
PCB-1242	800	330		ug/kg	30	53469-21-9	
PCB-1221	Not detected	330		ug/kg	30	11104-28-2	
PCB-1232	Not detected	330		ug/kg	30	11141-16-5	
PCB-1248	Not detected	330		ug/kg	30	12672-29-6	
PCB-1254	700	330		ug/kg	30	11097-69-1	
PCB-1260	Not detected	330		ug/kg	30	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/26/19 05:27, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330	110	ug/kg	6	83-32-9	S
Acenaphthylene	Not detected	330	97	ug/kg	6	208-96-8	S
Anthracene	Not detected	330	99	ug/kg	6	120-12-7	
4-Bromophenyl phenyl ether	Not detected	330	97	ug/kg	6	101-55-3	
di-n-Butyl phthalate	580	330	120	ug/kg	6	84-74-2	
Benzo(a)anthracene	630	330	110	ug/kg	6	56-55-3	
Benzo(a)pyrene	1,120	330	110	ug/kg	6	50-32-8	
Benzo(b)fluoranthene	1,140	330	110	ug/kg	6	205-99-2	
Benzo(ghi)perylene	530	330	140	ug/kg	6	191-24-2	
Benzo(k)fluoranthene	880	330	120	ug/kg	6	207-08-9	
Butyl benzyl phthalate	Not detected	330	100	ug/kg	6	85-68-7	
2-Chloronaphthalene	Not detected	330	90	ug/kg	6	91-58-7	S
2-Chlorophenol	Not detected	330	78	ug/kg	6	95-57-8	
4-Chloro-3-methylphenol	Not detected	330	83	ug/kg	6	59-50-7	
4-Chloroaniline	Not detected	670	72	ug/kg	6	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	330	95	ug/kg	6	7005-72-3	S
bis(2-Chloroethoxy)methane	Not detected	330	92	ug/kg	6	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330	89	ug/kg	6	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330	92	ug/kg	6	108-60-1	
Chrysene	810	330	100	ug/kg	6	218-01-9	
2,4-Dichlorophenol	Not detected	330	73	ug/kg	6	120-83-2	
2,4-Dimethylphenol	Not detected	330	150	ug/kg	6	105-67-9	
2,4-Dinitrophenol	Not detected	670	23	ug/kg	6	51-28-5	S
2,4-Dinitrotoluene	Not detected	330	87	ug/kg	6	121-14-2	S
2,6-Dinitrotoluene	Not detected	330	72	ug/kg	6	606-20-2	S
3,3'-Dichlorobenzidine	Not detected	670	56	ug/kg	6	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	670	38	ug/kg	6	534-52-1	
Dibenzo(ah)anthracene	Not detected	330	140	ug/kg	6	53-70-3	
Dibenzofuran	Not detected	330	89	ug/kg	6	132-64-9	S
Diethyl phthalate	Not detected	330	110	ug/kg	6	84-66-2	S
Dimethyl phthalate	Not detected	330	100	ug/kg	6	131-11-3	S
bis(2-Ethylhexyl)phthalate	Not detected	330	140	ug/kg	6	117-81-7	
Fluoranthene	650	330	99	ug/kg	6	206-44-0	
Fluorene	Not detected	330	98	ug/kg	6	86-73-7	S
Hexachlorobenzene	Not detected	330	90	ug/kg	6	118-74-1	
Hexachlorobutadiene	Not detected	330	79	ug/kg	6	87-68-3	
Hexachlorocyclopentadiene	Not detected	330	53	ug/kg	6	77-47-4	S

S-Surrogate recovery outside of control limits

Lab Sample ID: S99915.05 (continued)
Sample Tag: SB-81-22(1-3)_03142019

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/26/19 05:27, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hexachloroethane	Not detected	330	73	ug/kg	6	67-72-1	
Indeno(1,2,3-cd)pyrene	450	330	130	ug/kg	6	193-39-5	
Isophorone	Not detected	330	83	ug/kg	6	78-59-1	
2-Methylnaphthalene	Not detected	330	87	ug/kg	6	91-57-6	
2-Methylphenol (o-Cresol)	Not detected	330	110	ug/kg	6	95-48-7	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330	170	ug/kg	6	3/4-CRESOL	
2-Nitroaniline	Not detected	670	77	ug/kg	6	88-74-4	S
2-Nitrophenol	Not detected	330	61	ug/kg	6	88-75-5	
3-Nitroaniline	Not detected	670	68	ug/kg	6	99-09-2	S
4-Nitroaniline	Not detected	670	65	ug/kg	6	100-01-6	S
4-Nitrophenol	Not detected	670	47	ug/kg	6	100-02-7	S
N-Nitrosodi-n-propylamine	Not detected	330	100	ug/kg	6	621-64-7	
N-Nitrosodiphenylamine	Not detected	330	110	ug/kg	6	86-30-6	
Naphthalene	Not detected	330	91	ug/kg	6	91-20-3	
Nitrobenzene	Not detected	200	93	ug/kg	6	98-95-3	
di-n-Octyl phthalate	Not detected	330	120	ug/kg	6	117-84-0	
Pentachlorophenol	Not detected	670	39	ug/kg	6	87-86-5	
Phenanthrene	340	330	120	ug/kg	6	85-01-8	
Phenol	Not detected	330	77	ug/kg	6	108-95-2	
Pyrene	750	330	110	ug/kg	6	129-00-0	
2,4,5-Trichlorophenol	Not detected	330	75	ug/kg	6	95-95-4	S
2,4,6-Trichlorophenol	Not detected	330	69	ug/kg	6	88-06-2	S

TCL Semi-Volatile Organics (Replicate 01), Method: SW8270D, Run Date: 03/30/19 23:01, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330	130	ug/kg	7.5	83-32-9	
Acenaphthylene	Not detected	330	120	ug/kg	7.5	208-96-8	
Anthracene	Not detected	330	120	ug/kg	7.5	120-12-7	
4-Bromophenyl phenyl ether	Not detected	330	120	ug/kg	7.5	101-55-3	
di-n-Butyl phthalate	380	330	140	ug/kg	7.5	84-74-2	
Benzo(a)anthracene	410	330	140	ug/kg	7.5	56-55-3	
Benzo(a)pyrene	750	330	140	ug/kg	7.5	50-32-8	
Benzo(b)fluoranthene	750	330	130	ug/kg	7.5	205-99-2	
Benzo(ghi)perylene	510	330	170	ug/kg	7.5	191-24-2	
Benzo(k)fluoranthene	590	330	150	ug/kg	7.5	207-08-9	
Butyl benzyl phthalate	Not detected	330	130	ug/kg	7.5	85-68-7	
2-Chloronaphthalene	Not detected	330	110	ug/kg	7.5	91-58-7	
2-Chlorophenol	Not detected	330	98	ug/kg	7.5	95-57-8	
4-Chloro-3-methylphenol	Not detected	330	100	ug/kg	7.5	59-50-7	
4-Chloroaniline	Not detected	670	90	ug/kg	7.5	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	330	120	ug/kg	7.5	7005-72-3	
bis(2-Chloroethoxy)methane	Not detected	330	120	ug/kg	7.5	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330	110	ug/kg	7.5	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330	120	ug/kg	7.5	108-60-1	
Chrysene	580	330	130	ug/kg	7.5	218-01-9	
2,4-Dichlorophenol	Not detected	330	91	ug/kg	7.5	120-83-2	
2,4-Dimethylphenol	Not detected	330	190	ug/kg	7.5	105-67-9	
2,4-Dinitrophenol	Not detected	670	29	ug/kg	7.5	51-28-5	
2,4-Dinitrotoluene	Not detected	330	110	ug/kg	7.5	121-14-2	

S-Surrogate recovery outside of control limits

Lab Sample ID: S99915.05 (continued)
Sample Tag: SB-81-22(1-3)_03142019

TCL Semi-Volatile Organics (Replicate 01), Method: SW8270D, Run Date: 03/30/19 23:01, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,6-Dinitrotoluene	Not detected	330	90	ug/kg	7.5	606-20-2	
3,3'-Dichlorobenzidine	Not detected	670	70	ug/kg	7.5	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	670	48	ug/kg	7.5	534-52-1	
Dibenzo(ah)anthracene	Not detected	330	180	ug/kg	7.5	53-70-3	
Dibenzofuran	Not detected	330	110	ug/kg	7.5	132-64-9	
Diethyl phthalate	Not detected	330	130	ug/kg	7.5	84-66-2	
Dimethyl phthalate	Not detected	330	130	ug/kg	7.5	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	330	170	ug/kg	7.5	117-81-7	
Fluoranthene	390	330	120	ug/kg	7.5	206-44-0	
Fluorene	Not detected	330	120	ug/kg	7.5	86-73-7	
Hexachlorobenzene	Not detected	330	110	ug/kg	7.5	118-74-1	
Hexachlorobutadiene	Not detected	330	99	ug/kg	7.5	87-68-3	
Hexachlorocyclopentadiene	Not detected	330	66	ug/kg	7.5	77-47-4	
Hexachloroethane	Not detected	330	92	ug/kg	7.5	67-72-1	
Indeno(1,2,3-cd)pyrene	410	330	170	ug/kg	7.5	193-39-5	
Isophorone	Not detected	330	100	ug/kg	7.5	78-59-1	
2-Methylnaphthalene	Not detected	330	110	ug/kg	7.5	91-57-6	
2-Methylphenol (o-Cresol)	Not detected	330	130	ug/kg	7.5	95-48-7	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330	220	ug/kg	7.5	3/4-CRESOL	
2-Nitroaniline	Not detected	670	96	ug/kg	7.5	88-74-4	
2-Nitrophenol	Not detected	330	77	ug/kg	7.5	88-75-5	
3-Nitroaniline	Not detected	670	85	ug/kg	7.5	99-09-2	
4-Nitroaniline	Not detected	670	82	ug/kg	7.5	100-01-6	
4-Nitrophenol	Not detected	670	59	ug/kg	7.5	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	330	130	ug/kg	7.5	621-64-7	
N-Nitrosodiphenylamine	Not detected	330	130	ug/kg	7.5	86-30-6	
Naphthalene	Not detected	330	110	ug/kg	7.5	91-20-3	
Nitrobenzene	Not detected	200	120	ug/kg	7.5	98-95-3	
di-n-Octyl phthalate	Not detected	330	160	ug/kg	7.5	117-84-0	
Pentachlorophenol	Not detected	670	49	ug/kg	7.5	87-86-5	
Phenanthrene	Not detected	330	150	ug/kg	7.5	85-01-8	
Phenol	Not detected	330	96	ug/kg	7.5	108-95-2	
Pyrene	470	330	140	ug/kg	7.5	129-00-0	
2,4,5-Trichlorophenol	Not detected	330	94	ug/kg	7.5	95-95-4	
2,4,6-Trichlorophenol	Not detected	330	86	ug/kg	7.5	88-06-2	

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/26/19 05:27, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzaldehyde	Not detected	330	76	ug/kg	6	100-52-7	
Acetophenone	Not detected	330	79	ug/kg	6	98-86-2	
Caprolactam	Not detected	330	51	ug/kg	6	105-60-2	
Carbazole	Not detected	330	90	ug/kg	6	86-74-8	
1,1'-Biphenyl	Not detected	330	96	ug/kg	6	92-52-4	S
Atrazine	Not detected	330	95	ug/kg	6	1912-24-9	

TCL Semi-Volatile Organics (Replicate 01), Method: SW8270D, Run Date: 03/30/19 23:01, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzaldehyde	Not detected	330	95	ug/kg	7.5	100-52-7	
Acetophenone	Not detected	330	99	ug/kg	7.5	98-86-2	

S-Surrogate recovery outside of control limits

Lab Sample ID: S99915.05 (continued)
Sample Tag: SB-81-22(1-3)_03142019

TCL Semi-Volatile Organics (Replicate 01), Method: SW8270D, Run Date: 03/30/19 23:01, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Caprolactam	Not detected	330	64	ug/kg	7.5	105-60-2	
Carbazole	Not detected	330	110	ug/kg	7.5	86-74-8	
1,1'-Biphenyl	Not detected	330	120	ug/kg	7.5	92-52-4	
Atrazine	Not detected	330	120	ug/kg	7.5	1912-24-9	

Organics - Volatiles

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/16/19 01:50, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	100		ug/kg	59.2	76-13-1	
Acetone	Not detected	890		ug/kg	59.2	67-64-1	
Carbon disulfide	Not detected	300		ug/kg	59.2	75-15-0	
Methyl Acetate	Not detected	3,000		ug/kg	59.2	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	59.2	1634-04-4	
2-Butanone (MEK)	Not detected	890		ug/kg	59.2	78-93-3	
Dichlorodifluoromethane	Not detected	60		ug/kg	59.2	75-71-8	
Chloromethane	Not detected	300		ug/kg	59.2	74-87-3	
Vinyl chloride	Not detected	100		ug/kg	59.2	75-01-4	
Bromomethane	Not detected	300		ug/kg	59.2	74-83-9	
Chloroethane	Not detected	300		ug/kg	59.2	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	59.2	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	59.2	75-35-4	
Methylene chloride	Not detected	300		ug/kg	59.2	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	59.2	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	59.2	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	59.2	156-59-2	
Chloroform	Not detected	60		ug/kg	59.2	67-66-3	
1,1,1-Trichloroethane	Not detected	60		ug/kg	59.2	71-55-6	
Cyclohexane	Not detected	60		ug/kg	59.2	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	59.2	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	59.2	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	59.2	56-23-5	
Benzene	Not detected	60		ug/kg	59.2	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	59.2	107-06-2	
Trichloroethene	Not detected	60		ug/kg	59.2	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	59.2	78-87-5	
Bromodichloromethane	Not detected	60		ug/kg	59.2	75-27-4	
Methyl cyclohexane	90	60		ug/kg	59.2	108-87-2	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	59.2	10061-01-5	
Toluene	Not detected	60		ug/kg	59.2	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	59.2	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	59.2	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	59.2	127-18-4	
Dibromochloromethane	Not detected	60		ug/kg	59.2	124-48-1	
1,2-Dibromoethane	Not detected	60		ug/kg	59.2	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	59.2	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	59.2	79-34-5	
Ethylbenzene	Not detected	60		ug/kg	59.2	100-41-4	
p,m-Xylene	200	100		ug/kg	59.2		
o-Xylene	160	60		ug/kg	59.2	95-47-6	

M-Result reported to MDL not RDL

Lab Sample ID: S99915.05 (continued)
Sample Tag: SB-81-22(1-3)_03142019

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/16/19 01:50, Analyst: JML (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Styrene	Not detected	60		ug/kg	59.2	100-42-5	
Isopropylbenzene	90	60		ug/kg	59.2	98-82-8	
Bromoform	Not detected	60		ug/kg	59.2	75-25-2	
1,3-Dichlorobenzene	Not detected	60		ug/kg	59.2	541-73-1	
1,4-Dichlorobenzene	Not detected	60		ug/kg	59.2	106-46-7	
1,2-Dichlorobenzene	Not detected	60		ug/kg	59.2	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	60		ug/kg	59.2	96-12-8	
1,2,4-Trichlorobenzene	Not detected	100		ug/kg	59.2	120-82-1	
n-Propylbenzene	Not detected	60		ug/kg	59.2	103-65-1	
Naphthalene	70	60		ug/kg	59.2	91-20-3	

Lab Sample ID: S99915.06
Sample Tag: SB-81-22(11-13)_03142019
Collected Date/Time: 03/14/2019 17:45
Matrix: Soil
COC Reference: 109067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/20/19 11:00	CCM	
BNA Extraction*	Completed	SW3546	03/19/19 16:41	ANW	
BNA Extraction (Replicate 01)*	Completed	SW3546	03/25/19 15:00	ANW	
Extraction, PCB*	Completed	SW3546	03/19/19 13:44	ANW	
Mercury Digestion	Completed	SW7471B	03/26/19 10:45	JRH	

Inorganics

Method: E335.4/SM4500-CN, Run Date: 03/18/19 14:20, Analyst: JDP

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide*	Not detected	0.05	0.01	mg/kg	21	57-12-5	

Method: SM2540B, Run Date: 03/15/19 15:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1	1	%	1		

Metals

Method: SW6020A, Run Date: 03/20/19 13:09, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Antimony	Not detected	0.50		mg/kg	215	7440-36-0	
Arsenic	5.77	0.20		mg/kg	215	7440-38-2	
Barium	25.0	1.0		mg/kg	215	7440-39-3	
Beryllium	0.22	0.20		mg/kg	215	7440-41-7	
Cadmium	Not detected	0.20		mg/kg	215	7440-43-9	
Chromium	19.2	0.50		mg/kg	215	7440-47-3	
Cobalt	5.72	0.50		mg/kg	215	7440-48-4	
Copper	17.9	0.50		mg/kg	215	7440-50-8	
Lead	4.78	0.30		mg/kg	215	7439-92-1	
Manganese	1,200	0.50		mg/kg	215	7439-96-5	
Nickel	15.4	0.50		mg/kg	215	7440-02-0	
Selenium	Not detected	0.40		mg/kg	215	7782-49-2	
Silver	Not detected	0.20		mg/kg	215	7440-22-4	
Thallium	Not detected	0.20		mg/kg	215	7440-28-0	
Vanadium	20.2	0.50		mg/kg	215	7440-62-2	
Zinc	5.47	0.50		mg/kg	215	7440-66-6	

Method: SW7471B, Run Date: 03/26/19 15:45, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	57	7439-97-6	

Lab Sample ID: S99915.06 (continued)
Sample Tag: SB-81-22(11-13)_03142019

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/19/19 17:04, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	5	12674-11-2	
PCB-1242	Not detected	330		ug/kg	5	53469-21-9	
PCB-1221	Not detected	330		ug/kg	5	11104-28-2	
PCB-1232	Not detected	330		ug/kg	5	11141-16-5	
PCB-1248	Not detected	330		ug/kg	5	12672-29-6	
PCB-1254	Not detected	330		ug/kg	5	11097-69-1	
PCB-1260	Not detected	330		ug/kg	5	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/22/19 01:23, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330	100	ug/kg	6	83-32-9	S
Acenaphthylene	Not detected	330	94	ug/kg	6	208-96-8	S
Anthracene	Not detected	330	96	ug/kg	6	120-12-7	
4-Bromophenyl phenyl ether	Not detected	330	94	ug/kg	6	101-55-3	
di-n-Butyl phthalate	Not detected	330	110	ug/kg	6	84-74-2	
Benzo(a)anthracene	Not detected	330	110	ug/kg	6	56-55-3	
Benzo(a)pyrene	Not detected	330	110	ug/kg	6	50-32-8	
Benzo(b)fluoranthene	Not detected	330	100	ug/kg	6	205-99-2	
Benzo(ghi)perylene	Not detected	330	130	ug/kg	6	191-24-2	
Benzo(k)fluoranthene	Not detected	330	120	ug/kg	6	207-08-9	
Butyl benzyl phthalate	Not detected	330	97	ug/kg	6	85-68-7	
2-Chloronaphthalene	Not detected	330	87	ug/kg	6	91-58-7	S
2-Chlorophenol	Not detected	330	75	ug/kg	6	95-57-8	
4-Chloro-3-methylphenol	Not detected	330	80	ug/kg	6	59-50-7	
4-Chloroaniline	Not detected	670	70	ug/kg	6	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	330	92	ug/kg	6	7005-72-3	S
bis(2-Chloroethoxy)methane	Not detected	330	89	ug/kg	6	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330	86	ug/kg	6	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330	89	ug/kg	6	108-60-1	
Chrysene	Not detected	330	100	ug/kg	6	218-01-9	
2,4-Dichlorophenol	Not detected	330	71	ug/kg	6	120-83-2	
2,4-Dimethylphenol	Not detected	330	150	ug/kg	6	105-67-9	
2,4-Dinitrophenol	Not detected	670	22	ug/kg	6	51-28-5	S
2,4-Dinitrotoluene	Not detected	330	85	ug/kg	6	121-14-2	S
2,6-Dinitrotoluene	Not detected	330	70	ug/kg	6	606-20-2	S
3,3'-Dichlorobenzidine	Not detected	670	54	ug/kg	6	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	670	37	ug/kg	6	534-52-1	
Dibenzo(ah)anthracene	Not detected	330	140	ug/kg	6	53-70-3	
Dibenzofuran	Not detected	330	86	ug/kg	6	132-64-9	S
Diethyl phthalate	Not detected	330	100	ug/kg	6	84-66-2	S
Dimethyl phthalate	Not detected	330	97	ug/kg	6	131-11-3	S
bis(2-Ethylhexyl)phthalate	Not detected	330	130	ug/kg	6	117-81-7	
Fluoranthene	Not detected	330	96	ug/kg	6	206-44-0	
Fluorene	Not detected	330	95	ug/kg	6	86-73-7	S
Hexachlorobenzene	Not detected	330	87	ug/kg	6	118-74-1	
Hexachlorobutadiene	Not detected	330	76	ug/kg	6	87-68-3	
Hexachlorocyclopentadiene	Not detected	330	51	ug/kg	6	77-47-4	S

S-Surrogate recovery outside of control limits

Lab Sample ID: S99915.06 (continued)
Sample Tag: SB-81-22(11-13)_03142019

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/22/19 01:23, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hexachloroethane	Not detected	330	71	ug/kg	6	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	330	130	ug/kg	6	193-39-5	
Isophorone	Not detected	330	81	ug/kg	6	78-59-1	
2-Methylnaphthalene	Not detected	330	84	ug/kg	6	91-57-6	
2-Methylphenol (o-Cresol)	Not detected	330	100	ug/kg	6	95-48-7	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330	170	ug/kg	6	3/4-CRESOL	
2-Nitroaniline	Not detected	670	74	ug/kg	6	88-74-4	S
2-Nitrophenol	Not detected	330	59	ug/kg	6	88-75-5	
3-Nitroaniline	Not detected	670	66	ug/kg	6	99-09-2	S
4-Nitroaniline	Not detected	670	63	ug/kg	6	100-01-6	S
4-Nitrophenol	Not detected	670	45	ug/kg	6	100-02-7	S
N-Nitrosodi-n-propylamine	Not detected	330	99	ug/kg	6	621-64-7	
N-Nitrosodiphenylamine	Not detected	330	100	ug/kg	6	86-30-6	
Naphthalene	Not detected	330	88	ug/kg	6	91-20-3	
Nitrobenzene	Not detected	200	90	ug/kg	6	98-95-3	
di-n-Octyl phthalate	Not detected	330	120	ug/kg	6	117-84-0	
Pentachlorophenol	Not detected	670	38	ug/kg	6	87-86-5	
Phenanthrene	Not detected	330	120	ug/kg	6	85-01-8	
Phenol	Not detected	330	75	ug/kg	6	108-95-2	
Pyrene	Not detected	330	110	ug/kg	6	129-00-0	
2,4,5-Trichlorophenol	Not detected	330	73	ug/kg	6	95-95-4	S
2,4,6-Trichlorophenol	Not detected	330	66	ug/kg	6	88-06-2	S

TCL Semi-Volatile Organics (Replicate 01), Method: SW8270D, Run Date: 03/30/19 22:04, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330	130	ug/kg	7.5	83-32-9	
Acenaphthylene	Not detected	330	120	ug/kg	7.5	208-96-8	
Anthracene	Not detected	330	120	ug/kg	7.5	120-12-7	
4-Bromophenyl phenyl ether	Not detected	330	120	ug/kg	7.5	101-55-3	
di-n-Butyl phthalate	Not detected	330	140	ug/kg	7.5	84-74-2	
Benzo(a)anthracene	Not detected	330	130	ug/kg	7.5	56-55-3	
Benzo(a)pyrene	Not detected	330	130	ug/kg	7.5	50-32-8	
Benzo(b)fluoranthene	Not detected	330	130	ug/kg	7.5	205-99-2	
Benzo(ghi)perylene	Not detected	330	160	ug/kg	7.5	191-24-2	
Benzo(k)fluoranthene	Not detected	330	150	ug/kg	7.5	207-08-9	
Butyl benzyl phthalate	Not detected	330	120	ug/kg	7.5	85-68-7	
2-Chloronaphthalene	Not detected	330	110	ug/kg	7.5	91-58-7	
2-Chlorophenol	Not detected	330	94	ug/kg	7.5	95-57-8	
4-Chloro-3-methylphenol	Not detected	330	100	ug/kg	7.5	59-50-7	
4-Chloroaniline	Not detected	670	88	ug/kg	7.5	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	330	120	ug/kg	7.5	7005-72-3	
bis(2-Chloroethoxy)methane	Not detected	330	110	ug/kg	7.5	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330	110	ug/kg	7.5	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330	110	ug/kg	7.5	108-60-1	
Chrysene	Not detected	330	130	ug/kg	7.5	218-01-9	
2,4-Dichlorophenol	Not detected	330	88	ug/kg	7.5	120-83-2	
2,4-Dimethylphenol	Not detected	330	180	ug/kg	7.5	105-67-9	
2,4-Dinitrophenol	Not detected	670	28	ug/kg	7.5	51-28-5	
2,4-Dinitrotoluene	Not detected	330	110	ug/kg	7.5	121-14-2	

S-Surrogate recovery outside of control limits

Lab Sample ID: S99915.06 (continued)
Sample Tag: SB-81-22(11-13)_03142019

TCL Semi-Volatile Organics (Replicate 01), Method: SW8270D, Run Date: 03/30/19 22:04, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2,6-Dinitrotoluene	Not detected	330	87	ug/kg	7.5	606-20-2	
3,3'-Dichlorobenzidine	Not detected	670	67	ug/kg	7.5	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	670	46	ug/kg	7.5	534-52-1	
Dibenzo(ah)anthracene	Not detected	330	170	ug/kg	7.5	53-70-3	
Dibenzofuran	Not detected	330	110	ug/kg	7.5	132-64-9	
Diethyl phthalate	Not detected	330	130	ug/kg	7.5	84-66-2	
Dimethyl phthalate	Not detected	330	120	ug/kg	7.5	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	330	170	ug/kg	7.5	117-81-7	
Fluoranthene	Not detected	330	120	ug/kg	7.5	206-44-0	
Fluorene	Not detected	330	120	ug/kg	7.5	86-73-7	
Hexachlorobenzene	Not detected	330	110	ug/kg	7.5	118-74-1	
Hexachlorobutadiene	Not detected	330	96	ug/kg	7.5	87-68-3	
Hexachlorocyclopentadiene	Not detected	330	64	ug/kg	7.5	77-47-4	
Hexachloroethane	Not detected	330	89	ug/kg	7.5	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	330	160	ug/kg	7.5	193-39-5	
Isophorone	Not detected	330	100	ug/kg	7.5	78-59-1	
2-Methylnaphthalene	Not detected	330	100	ug/kg	7.5	91-57-6	
2-Methylphenol (o-Cresol)	Not detected	330	130	ug/kg	7.5	95-48-7	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330	210	ug/kg	7.5	3/4-CRESOL	
2-Nitroaniline	Not detected	670	93	ug/kg	7.5	88-74-4	
2-Nitrophenol	Not detected	330	74	ug/kg	7.5	88-75-5	
3-Nitroaniline	Not detected	670	83	ug/kg	7.5	99-09-2	
4-Nitroaniline	Not detected	670	79	ug/kg	7.5	100-01-6	
4-Nitrophenol	Not detected	670	57	ug/kg	7.5	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	330	120	ug/kg	7.5	621-64-7	
N-Nitrosodiphenylamine	Not detected	330	130	ug/kg	7.5	86-30-6	
Naphthalene	Not detected	330	110	ug/kg	7.5	91-20-3	
Nitrobenzene	Not detected	200	110	ug/kg	7.5	98-95-3	
di-n-Octyl phthalate	Not detected	330	150	ug/kg	7.5	117-84-0	
Pentachlorophenol	Not detected	670	47	ug/kg	7.5	87-86-5	
Phenanthrene	Not detected	330	150	ug/kg	7.5	85-01-8	
Phenol	Not detected	330	93	ug/kg	7.5	108-95-2	
Pyrene	Not detected	330	140	ug/kg	7.5	129-00-0	
2,4,5-Trichlorophenol	Not detected	330	91	ug/kg	7.5	95-95-4	
2,4,6-Trichlorophenol	Not detected	330	83	ug/kg	7.5	88-06-2	

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/22/19 01:23, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzaldehyde	Not detected	330	74	ug/kg	6	100-52-7	
Acetophenone	Not detected	330	76	ug/kg	6	98-86-2	
Caprolactam	Not detected	330	49	ug/kg	6	105-60-2	
Carbazole	Not detected	330	87	ug/kg	6	86-74-8	
1,1'-Biphenyl	Not detected	330	93	ug/kg	6	92-52-4	S
Atrazine	Not detected	330	92	ug/kg	6	1912-24-9	

TCL Semi-Volatile Organics (Replicate 01), Method: SW8270D, Run Date: 03/30/19 22:04, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzaldehyde	Not detected	330	92	ug/kg	7.5	100-52-7	
Acetophenone	Not detected	330	96	ug/kg	7.5	98-86-2	

S-Surrogate recovery outside of control limits

Lab Sample ID: S99915.06 (continued)
Sample Tag: SB-81-22(11-13)_03142019

TCL Semi-Volatile Organics (Replicate 01), Method: SW8270D, Run Date: 03/30/19 22:04, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Caprolactam	Not detected	330	62	ug/kg	7.5	105-60-2	
Carbazole	Not detected	330	110	ug/kg	7.5	86-74-8	
1,1'-Biphenyl	Not detected	330	120	ug/kg	7.5	92-52-4	
Atrazine	Not detected	330	120	ug/kg	7.5	1912-24-9	

Organics - Volatiles

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/16/19 02:09, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	100		ug/kg	52.8	76-13-1	
Acetone	Not detected	790		ug/kg	52.8	67-64-1	
Carbon disulfide	Not detected	300		ug/kg	52.8	75-15-0	
Methyl Acetate	Not detected	3,000		ug/kg	52.8	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	52.8	1634-04-4	
2-Butanone (MEK)	Not detected	790		ug/kg	52.8	78-93-3	
Dichlorodifluoromethane	Not detected	50		ug/kg	52.8	75-71-8	
Chloromethane	Not detected	300		ug/kg	52.8	74-87-3	
Vinyl chloride	Not detected	100		ug/kg	52.8	75-01-4	
Bromomethane	Not detected	300		ug/kg	52.8	74-83-9	
Chloroethane	Not detected	300		ug/kg	52.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	52.8	75-69-4	
1,1-Dichloroethene	Not detected	50		ug/kg	52.8	75-35-4	
Methylene chloride	Not detected	300		ug/kg	52.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	50		ug/kg	52.8	156-60-5	
1,1-Dichloroethane	Not detected	50		ug/kg	52.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	50		ug/kg	52.8	156-59-2	
Chloroform	Not detected	50		ug/kg	52.8	67-66-3	
1,1,1-Trichloroethane	Not detected	50		ug/kg	52.8	71-55-6	
Cyclohexane	Not detected	100		ug/kg	52.8	110-82-7	X
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	52.8	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	52.8	591-78-6	
Carbon tetrachloride	Not detected	50		ug/kg	52.8	56-23-5	
Benzene	Not detected	50		ug/kg	52.8	71-43-2	
1,2-Dichloroethane	Not detected	50		ug/kg	52.8	107-06-2	
Trichloroethene	Not detected	50		ug/kg	52.8	79-01-6	
1,2-Dichloropropane	Not detected	50		ug/kg	52.8	78-87-5	
Bromodichloromethane	Not detected	50		ug/kg	52.8	75-27-4	
Methyl cyclohexane	Not detected	50		ug/kg	52.8	108-87-2	
cis-1,3-Dichloropropene	Not detected	50		ug/kg	52.8	10061-01-5	
Toluene	Not detected	50		ug/kg	52.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	50		ug/kg	52.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	50		ug/kg	52.8	79-00-5	
Tetrachloroethene	Not detected	50		ug/kg	52.8	127-18-4	
Dibromochloromethane	Not detected	50		ug/kg	52.8	124-48-1	
1,2-Dibromoethane	Not detected	50		ug/kg	52.8	106-93-4	M
Chlorobenzene	Not detected	50		ug/kg	52.8	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	50		ug/kg	52.8	79-34-5	
Ethylbenzene	Not detected	50		ug/kg	52.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	52.8		

X-Elevated reporting limit due to matrix interference
M-Result reported to MDL not RDL

Lab Sample ID: S99915.06 (continued)
Sample Tag: SB-81-22(11-13)_03142019

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/16/19 02:09, Analyst: JML (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
o-Xylene	Not detected	50		ug/kg	52.8	95-47-6	
Styrene	Not detected	50		ug/kg	52.8	100-42-5	
Isopropylbenzene	Not detected	50		ug/kg	52.8	98-82-8	
Bromoform	Not detected	50		ug/kg	52.8	75-25-2	
1,3-Dichlorobenzene	Not detected	50		ug/kg	52.8	541-73-1	
1,4-Dichlorobenzene	Not detected	50		ug/kg	52.8	106-46-7	
1,2-Dichlorobenzene	Not detected	50		ug/kg	52.8	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	50		ug/kg	52.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	100		ug/kg	52.8	120-82-1	
n-Propylbenzene	Not detected	50		ug/kg	52.8	103-65-1	
Naphthalene	Not detected	50		ug/kg	52.8	91-20-3	

Analytical Laboratory Report

Lab Sample ID: S99915.07
Sample Tag: SB-10-32(03142019)
Collected Date/Time: 03/14/2019 15:40
Matrix: Groundwater
COC Reference: 109067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.4	IR
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR
1	125ml Plastic	NaOH	Yes	5.4	IR
1	125ml Plastic	None	Yes	5.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	03/19/19 09:00	JML	
Metal Digestion	Completed	SW3015A	03/22/19 09:10	CCM	
Metal Digestion	Completed	SW3015A	03/22/19 09:10	CCM	
BNA Extraction	Completed	SW3510C	03/20/19 14:51	ANW	
Mercury Digestion*	Completed	SW7471B	03/26/19 09:00	JRH	
Mercury Digestion*	Completed	SW7471B	03/26/19 09:00	JRH	

Inorganics

Method: E335.4/SM4500-CN, Run Date: 03/19/19 13:20, Analyst: JDP

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide	0.004	0.004	0.001	mg/L	2	57-12-5	

Method: E335.4/SM4500-CN, Run Date: 03/19/19 14:33, Analyst: JDP

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide	Not detected	0.004	0.001	mg/L	2	57-12-5	f

Metals

Method: SW6020A, Run Date: 03/22/19 11:42, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Antimony	Not detected	0.005		mg/L	5	7440-36-0	
Arsenic	0.007	0.002		mg/L	5	7440-38-2	
Barium	0.207	0.005		mg/L	5	7440-39-3	
Beryllium	Not detected	0.001		mg/L	5	7440-41-7	
Cadmium	Not detected	0.0005		mg/L	5	7440-43-9	
Chromium	Not detected	0.005		mg/L	5	7440-47-3	
Cobalt	Not detected	0.005		mg/L	5	7440-48-4	
Copper	0.006	0.005		mg/L	5	7440-50-8	
Lead	0.004	0.003		mg/L	5	7439-92-1	
Manganese	3.54	0.005		mg/L	5	7439-96-5	
Nickel	0.013	0.005		mg/L	5	7440-02-0	
Selenium	Not detected	0.005		mg/L	5	7782-49-2	
Silver	Not detected	0.0005		mg/L	5	7440-22-4	
Thallium	Not detected	0.002		mg/L	5	7440-28-0	
Vanadium	Not detected	0.005		mg/L	5	7440-62-2	
Zinc	Not detected	0.005		mg/L	5	7440-66-6	

f-Filtered and preserved in lab

Lab Sample ID: S99915.07 (continued)
Sample Tag: SB-10-32(03142019)

Method: SW6020A, Run Date: 03/22/19 11:45, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Antimony, Dissolved	Not detected	0.005		mg/L	5	7440-36-0	f
Arsenic, Dissolved	0.002	0.002		mg/L	5	7440-38-2	f
Barium, Dissolved	0.178	0.005		mg/L	5	7440-39-3	f
Beryllium, Dissolved	Not detected	0.001		mg/L	5	7440-41-7	f
Cadmium, Dissolved	Not detected	0.0005		mg/L	5	7440-43-9	f
Chromium, Dissolved	Not detected	0.005		mg/L	5	7440-47-3	f
Cobalt, Dissolved	Not detected	0.005		mg/L	5	7440-48-4	f
Copper, Dissolved	Not detected	0.005		mg/L	5	7440-50-8	f
Lead, Dissolved	Not detected	0.003		mg/L	5	7439-92-1	f
Manganese, Dissolved	3.48	0.005		mg/L	5	7439-96-5	f
Nickel, Dissolved	0.011	0.005		mg/L	5	7440-02-0	f
Selenium, Dissolved	Not detected	0.005		mg/L	5	7782-49-2	f
Silver, Dissolved	Not detected	0.0005		mg/L	5	7440-22-4	f
Thallium, Dissolved	Not detected	0.002		mg/L	5	7440-28-0	f
Vanadium, Dissolved	Not detected	0.005		mg/L	5	7440-62-2	f
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	f

Method: SW7471B, Run Date: 03/26/19 13:59, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury*	Not detected	0.0002		mg/L	2	7439-97-6	

Method: SW7471B, Run Date: 03/26/19 14:01, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury, Dissolved*	0.0002	0.0002		mg/L	2	7439-97-6	f

Organics - Semi-Volatiles

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/23/19 01:58, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzaldehyde	Not detected	5	0.58	ug/L	2	100-52-7	
Acetophenone	Not detected	5	0.48	ug/L	2	98-86-2	
Caprolactam	Not detected	10	0.53	ug/L	2	105-60-2	
Carbazole	Not detected	5	0.67	ug/L	2	86-74-8	
1,1'-Biphenyl	Not detected	5	0.57	ug/L	2	92-52-4	
Atrazine*	Not detected	3	0.59	ug/L	2	1912-24-9	

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/23/19 01:58, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	5	0.57	ug/L	2	83-32-9	
Acenaphthylene	Not detected	5	0.67	ug/L	2	208-96-8	
Anthracene	Not detected	5	0.69	ug/L	2	120-12-7	
4-Bromophenyl phenyl ether	Not detected	5	0.54	ug/L	2	101-55-3	
di-n-Butyl phthalate	Not detected	5	0.62	ug/L	2	84-74-2	
Benzo(a)anthracene	Not detected	1	0.79	ug/L	2	56-55-3	
Benzo(a)pyrene	Not detected	5	0.97	ug/L	2	50-32-8	
Benzo(b)fluoranthene	Not detected	1	0.76	ug/L	2	205-99-2	
Benzo(ghi)perylene	Not detected	5	0.95	ug/L	2	191-24-2	
Benzo(k)fluoranthene	Not detected	5	0.80	ug/L	2	207-08-9	
Butyl benzyl phthalate	Not detected	5	1.0	ug/L	2	85-68-7	
2-Chloronaphthalene	Not detected	5	0.54	ug/L	2	91-58-7	

f-Filtered and preserved in lab

Lab Sample ID: S99915.07 (continued)
Sample Tag: SB-10-32(03142019)

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/23/19 01:58, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Chlorophenol	Not detected	10	0.52	ug/L	2	95-57-8	
4-Chloro-3-methylphenol	Not detected	5	0.59	ug/L	2	59-50-7	
4-Chloroaniline	Not detected	10	0.56	ug/L	2	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	5	0.50	ug/L	2	7005-72-3	
bis(2-Chloroethoxy)methane	Not detected	5	0.59	ug/L	2	111-91-1	
bis(2-Chloroethyl)ether	Not detected	1	0.56	ug/L	2	111-44-4	
Chrysene	Not detected	1	0.59	ug/L	2	218-01-9	
2,4-Dichlorophenol	Not detected	10	0.60	ug/L	2	120-83-2	
2,4-Dimethylphenol	Not detected	5	0.70	ug/L	2	105-67-9	
2,4-Dinitrophenol	Not detected	25	0.17	ug/L	2	51-28-5	
2,4-Dinitrotoluene	Not detected	5	0.55	ug/L	2	121-14-2	
2,6-Dinitrotoluene	Not detected	5	0.60	ug/L	2	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	25	0.25	ug/L	2	534-52-1	
Dibenzo(ah)anthracene	Not detected	5	0.88	ug/L	2	53-70-3	
Dibenzofuran	Not detected	4	0.53	ug/L	2	132-64-9	
Diethyl phthalate	Not detected	5	0.70	ug/L	2	84-66-2	
Dimethyl phthalate	Not detected	5	0.62	ug/L	2	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	5	1.3	ug/L	2	117-81-7	
Fluoranthene	Not detected	1	0.67	ug/L	2	206-44-0	
Fluorene	Not detected	5	0.63	ug/L	2	86-73-7	
Hexachlorocyclopentadiene	Not detected	5	0.29	ug/L	2	77-47-4	
Hexachloroethane	Not detected	5	0.53	ug/L	2	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	5	0.88	ug/L	2	193-39-5	
Isophorone	Not detected	5	0.61	ug/L	2	78-59-1	
2-Methylnaphthalene	Not detected	5	0.49	ug/L	2	91-57-6	
2-Methylphenol (o-Cresol)	Not detected	10	0.56	ug/L	2	95-48-7	
2-Nitroaniline	Not detected	25	0.49	ug/L	2	88-74-4	
2-Nitrophenol	Not detected	5	0.45	ug/L	2	88-75-5	
3-Nitroaniline	Not detected	25	0.47	ug/L	2	99-09-2	
4-Nitroaniline	Not detected	25	0.46	ug/L	2	100-01-6	
4-Nitrophenol	Not detected	25	0.63	ug/L	2	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	10	0.73	ug/L	2	621-64-7	
N-Nitrosodiphenylamine	Not detected	5	0.71	ug/L	2	86-30-6	
Naphthalene	Not detected	5	0.62	ug/L	2	91-20-3	
Nitrobenzene	Not detected	3	0.79	ug/L	2	98-95-3	
di-n-Octyl phthalate	Not detected	5	1.4	ug/L	2	117-84-0	
2,4,5-Trichlorophenol	Not detected	5	0.64	ug/L	2	95-95-4	
2,4,6-Trichlorophenol	Not detected	4	0.54	ug/L	2	88-06-2	
3,3'-Dichlorobenzidine	Not detected	10	1.5	ug/L	2	91-94-1	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	10	1.1	ug/L	2	3/4-CRESOL	
Pentachlorophenol	Not detected	5	0.41	ug/L	2	87-86-5	
Phenanthrene	Not detected	2	0.71	ug/L	2	85-01-8	
Phenol	Not detected	5	0.59	ug/L	2	108-95-2	
Pyrene	Not detected	5	0.82	ug/L	2	129-00-0	
Hexachlorobenzene	Not detected	5	0.63	ug/L	2	118-74-1	
Hexachlorobutadiene	Not detected	5	0.58	ug/L	2	87-68-3	
bis(2-Chloroisopropyl)ether*	Not detected	5	0.65	ug/L	2	108-60-1	

Lab Sample ID: S99915.07 (continued)
Sample Tag: SB-10-32(03142019)

Organics - Volatiles

Method: SW8260B - SIM, Run Date: 03/21/19 17:04, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dioxane*	28	1		ug/L	1	123-91-1	

TCL Volatile Organics 8260 PAL, Method: SW5030C/8260C, Run Date: 03/15/19 16:34, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	30		ug/L	1	76-13-1	
Acetone	Not detected	20		ug/L	1	67-64-1	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Methyl Acetate	Not detected	10		ug/L	1	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
2-Butanone (MEK)	Not detected	20		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	1		ug/L	1	75-71-8	
Chloromethane	Not detected	1		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	2		ug/L	1	74-83-9	
Chloroethane	Not detected	1		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Chloroform	Not detected	1		ug/L	1	67-66-3	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
Cyclohexane	Not detected	1		ug/L	1	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	10		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Methyl cyclohexane	Not detected	20		ug/L	1	108-87-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Dibromochloromethane	Not detected	1		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	1		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	

Lab Sample ID: S99915.07 (continued)
Sample Tag: SB-10-32(03142019)

TCL Volatile Organics 8260 PAL, Method: SW5030C/8260C, Run Date: 03/15/19 16:34, Analyst: JML (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	1		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	2		ug/L	1	120-82-1	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Naphthalene	Not detected	1		ug/L	1	91-20-3	

Analytical Laboratory Report

Lab Sample ID: S99915.08
Sample Tag: SB-10-30(03142019)
Collected Date/Time: 03/14/2019 17:00
Matrix: Groundwater
COC Reference: 109067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.4	IR
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR
1	125ml Plastic	NaOH	Yes	5.4	IR
1	125ml Plastic	None	Yes	5.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	03/19/19 09:00	JML	
Metal Digestion	Completed	SW3015A	03/22/19 09:10	CCM	
Metal Digestion	Completed	SW3015A	03/22/19 09:10	CCM	
BNA Extraction	Completed	SW3510C	03/20/19 14:51	ANW	
Mercury Digestion*	Completed	SW7471B	03/26/19 09:00	JRH	
Mercury Digestion*	Completed	SW7471B	03/26/19 09:00	JRH	

Inorganics

Method: E335.4/SM4500-CN, Run Date: 03/19/19 13:22, Analyst: JDP

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide	Not detected	0.004	0.001	mg/L	2	57-12-5	

Method: E335.4/SM4500-CN, Run Date: 03/19/19 14:35, Analyst: JDP

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide	Not detected	0.004	0.001	mg/L	2	57-12-5	f

Metals

Method: SW6020A, Run Date: 03/22/19 11:47, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Antimony	Not detected	0.005		mg/L	5	7440-36-0	
Arsenic	0.003	0.002		mg/L	5	7440-38-2	
Barium	0.038	0.005		mg/L	5	7440-39-3	
Beryllium	Not detected	0.001		mg/L	5	7440-41-7	
Cadmium	Not detected	0.0005		mg/L	5	7440-43-9	
Chromium	Not detected	0.005		mg/L	5	7440-47-3	
Cobalt	Not detected	0.005		mg/L	5	7440-48-4	
Copper	Not detected	0.005		mg/L	5	7440-50-8	
Lead	0.011	0.003		mg/L	5	7439-92-1	
Manganese	0.030	0.005		mg/L	5	7439-96-5	
Nickel	Not detected	0.005		mg/L	5	7440-02-0	
Selenium	Not detected	0.005		mg/L	5	7782-49-2	
Silver	Not detected	0.0005		mg/L	5	7440-22-4	
Thallium	Not detected	0.002		mg/L	5	7440-28-0	
Vanadium	0.006	0.005		mg/L	5	7440-62-2	
Zinc	0.007	0.005		mg/L	5	7440-66-6	

f-Filtered and preserved in lab

Lab Sample ID: S99915.08 (continued)
Sample Tag: SB-10-30(03142019)

Method: SW6020A, Run Date: 03/22/19 11:49, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Antimony, Dissolved	Not detected	0.005		mg/L	5	7440-36-0	f
Arsenic, Dissolved	0.003	0.002		mg/L	5	7440-38-2	f
Barium, Dissolved	0.029	0.005		mg/L	5	7440-39-3	f
Beryllium, Dissolved	Not detected	0.001		mg/L	5	7440-41-7	f
Cadmium, Dissolved	Not detected	0.0005		mg/L	5	7440-43-9	f
Chromium, Dissolved	Not detected	0.005		mg/L	5	7440-47-3	f
Cobalt, Dissolved	Not detected	0.005		mg/L	5	7440-48-4	f
Copper, Dissolved	Not detected	0.005		mg/L	5	7440-50-8	f
Lead, Dissolved	Not detected	0.003		mg/L	5	7439-92-1	f
Manganese, Dissolved	0.014	0.005		mg/L	5	7439-96-5	f
Nickel, Dissolved	Not detected	0.005		mg/L	5	7440-02-0	f
Selenium, Dissolved	Not detected	0.005		mg/L	5	7782-49-2	f
Silver, Dissolved	Not detected	0.0005		mg/L	5	7440-22-4	f
Thallium, Dissolved	Not detected	0.002		mg/L	5	7440-28-0	f
Vanadium, Dissolved	Not detected	0.005		mg/L	5	7440-62-2	f
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	f

Method: SW7471B, Run Date: 03/26/19 14:03, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury*	Not detected	0.0002		mg/L	2	7439-97-6	

Method: SW7471B, Run Date: 03/26/19 14:04, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury, Dissolved*	Not detected	0.0002		mg/L	2	7439-97-6	f

Organics - Semi-Volatiles

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/23/19 02:27, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzaldehyde	Not detected	5	0.58	ug/L	2	100-52-7	
Acetophenone	Not detected	5	0.48	ug/L	2	98-86-2	
Caprolactam	Not detected	10	0.53	ug/L	2	105-60-2	
Carbazole	Not detected	5	0.67	ug/L	2	86-74-8	
1,1'-Biphenyl	Not detected	5	0.57	ug/L	2	92-52-4	
Atrazine*	Not detected	3	0.59	ug/L	2	1912-24-9	

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/23/19 02:27, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	5	0.57	ug/L	2	83-32-9	
Acenaphthylene	Not detected	5	0.67	ug/L	2	208-96-8	
Anthracene	Not detected	5	0.69	ug/L	2	120-12-7	
4-Bromophenyl phenyl ether	Not detected	5	0.54	ug/L	2	101-55-3	
di-n-Butyl phthalate	Not detected	5	0.62	ug/L	2	84-74-2	
Benzo(a)anthracene	Not detected	1	0.79	ug/L	2	56-55-3	
Benzo(a)pyrene	Not detected	5	0.97	ug/L	2	50-32-8	
Benzo(b)fluoranthene	Not detected	1	0.76	ug/L	2	205-99-2	
Benzo(ghi)perylene	Not detected	5	0.95	ug/L	2	191-24-2	
Benzo(k)fluoranthene	Not detected	5	0.80	ug/L	2	207-08-9	
Butyl benzyl phthalate	Not detected	5	1.0	ug/L	2	85-68-7	
2-Chloronaphthalene	Not detected	5	0.54	ug/L	2	91-58-7	

f-Filtered and preserved in lab

Lab Sample ID: S99915.08 (continued)
Sample Tag: SB-10-30(03142019)

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/23/19 02:27, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Chlorophenol	Not detected	10	0.52	ug/L	2	95-57-8	
4-Chloro-3-methylphenol	Not detected	5	0.59	ug/L	2	59-50-7	
4-Chloroaniline	Not detected	10	0.56	ug/L	2	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	5	0.50	ug/L	2	7005-72-3	
bis(2-Chloroethoxy)methane	Not detected	5	0.59	ug/L	2	111-91-1	
bis(2-Chloroethyl)ether	Not detected	1	0.56	ug/L	2	111-44-4	
Chrysene	Not detected	1	0.59	ug/L	2	218-01-9	
2,4-Dichlorophenol	Not detected	10	0.60	ug/L	2	120-83-2	
2,4-Dimethylphenol	Not detected	5	0.70	ug/L	2	105-67-9	
2,4-Dinitrophenol	Not detected	25	0.17	ug/L	2	51-28-5	
2,4-Dinitrotoluene	Not detected	5	0.55	ug/L	2	121-14-2	
2,6-Dinitrotoluene	Not detected	5	0.60	ug/L	2	606-20-2	
4,6-Dinitro-2-methylphenol	Not detected	25	0.25	ug/L	2	534-52-1	
Dibenzo(ah)anthracene	Not detected	5	0.88	ug/L	2	53-70-3	
Dibenzofuran	Not detected	4	0.53	ug/L	2	132-64-9	
Diethyl phthalate	Not detected	5	0.70	ug/L	2	84-66-2	
Dimethyl phthalate	Not detected	5	0.62	ug/L	2	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	5	1.3	ug/L	2	117-81-7	
Fluoranthene	2	1	0.67	ug/L	2	206-44-0	
Fluorene	Not detected	5	0.63	ug/L	2	86-73-7	
Hexachlorocyclopentadiene	Not detected	5	0.29	ug/L	2	77-47-4	
Hexachloroethane	Not detected	5	0.53	ug/L	2	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	5	0.88	ug/L	2	193-39-5	
Isophorone	Not detected	5	0.61	ug/L	2	78-59-1	
2-Methylnaphthalene	Not detected	5	0.49	ug/L	2	91-57-6	
2-Methylphenol (o-Cresol)	Not detected	10	0.56	ug/L	2	95-48-7	
2-Nitroaniline	Not detected	25	0.49	ug/L	2	88-74-4	
2-Nitrophenol	Not detected	5	0.45	ug/L	2	88-75-5	
3-Nitroaniline	Not detected	25	0.47	ug/L	2	99-09-2	
4-Nitroaniline	Not detected	25	0.46	ug/L	2	100-01-6	
4-Nitrophenol	Not detected	25	0.63	ug/L	2	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	10	0.73	ug/L	2	621-64-7	
N-Nitrosodiphenylamine	Not detected	5	0.71	ug/L	2	86-30-6	
Naphthalene	Not detected	5	0.62	ug/L	2	91-20-3	
Nitrobenzene	Not detected	3	0.79	ug/L	2	98-95-3	
di-n-Octyl phthalate	Not detected	5	1.4	ug/L	2	117-84-0	
2,4,5-Trichlorophenol	Not detected	5	0.64	ug/L	2	95-95-4	
2,4,6-Trichlorophenol	Not detected	4	0.54	ug/L	2	88-06-2	
3,3'-Dichlorobenzidine	Not detected	10	1.5	ug/L	2	91-94-1	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	10	1.1	ug/L	2	3/4-CRESOL	
Pentachlorophenol	Not detected	5	0.41	ug/L	2	87-86-5	
Phenanthrene	2	2	0.71	ug/L	2	85-01-8	
Phenol	Not detected	5	0.59	ug/L	2	108-95-2	
Pyrene	Not detected	5	0.82	ug/L	2	129-00-0	
Hexachlorobenzene	Not detected	5	0.63	ug/L	2	118-74-1	
Hexachlorobutadiene	Not detected	5	0.58	ug/L	2	87-68-3	
bis(2-Chloroisopropyl)ether*	Not detected	5	0.65	ug/L	2	108-60-1	

Lab Sample ID: S99915.08 (continued)
Sample Tag: SB-10-30(03142019)

Organics - Volatiles

Method: SW8260B - SIM, Run Date: 03/21/19 17:25, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dioxane*	Not detected	1		ug/L	1	123-91-1	

TCL Volatile Organics 8260 PAL, Method: SW5030C/8260C, Run Date: 03/15/19 16:53, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	30		ug/L	1	76-13-1	
Acetone	Not detected	20		ug/L	1	67-64-1	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Methyl Acetate	Not detected	10		ug/L	1	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
2-Butanone (MEK)	Not detected	20		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	1		ug/L	1	75-71-8	
Chloromethane	Not detected	1		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	2		ug/L	1	74-83-9	
Chloroethane	Not detected	1		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Chloroform	Not detected	1		ug/L	1	67-66-3	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
Cyclohexane	Not detected	1		ug/L	1	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	10		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Methyl cyclohexane	Not detected	20		ug/L	1	108-87-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Dibromochloromethane	Not detected	1		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	1		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	

Lab Sample ID: S99915.08 (continued)
Sample Tag: SB-10-30(03142019)

TCL Volatile Organics 8260 PAL, Method: SW5030C/8260C, Run Date: 03/15/19 16:53, Analyst: JML (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	1		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	2		ug/L	1	120-82-1	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Naphthalene	1	1		ug/L	1	91-20-3	

Analytical Laboratory Report

Lab Sample ID: S99915.09
Sample Tag: SB-10-30(1-3)_03142019
Collected Date/Time: 03/14/2019 11:40
Matrix: Soil
COC Reference: 109067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/20/19 11:00	CCM	
BNA Extraction*	Completed	SW3546	03/20/19 21:16	ANW	
Extraction, PCB*	Completed	SW3546	03/19/19 13:44	ANW	
Mercury Digestion	Completed	SW7471B	03/26/19 10:45	JRH	

Inorganics

Method: E335.4/SM4500-CN, Run Date: 03/18/19 14:22, Analyst: JDP

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide*	0.17	0.05	0.01	mg/kg	24	57-12-5	

Method: SM2540B, Run Date: 03/15/19 15:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Metals

Method: SW6020A, Run Date: 03/20/19 13:12, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Antimony	Not detected	0.50		mg/kg	249	7440-36-0	
Arsenic	2.02	0.20		mg/kg	249	7440-38-2	
Barium	62.3	1.0		mg/kg	249	7440-39-3	
Beryllium	0.27	0.20		mg/kg	249	7440-41-7	
Cadmium	0.20	0.20		mg/kg	249	7440-43-9	
Chromium	10.3	0.50		mg/kg	249	7440-47-3	
Cobalt	3.92	0.50		mg/kg	249	7440-48-4	
Copper	56.7	0.50		mg/kg	249	7440-50-8	
Lead	151	0.30		mg/kg	249	7439-92-1	
Manganese	209	0.50		mg/kg	249	7439-96-5	
Nickel	14.6	0.50		mg/kg	249	7440-02-0	
Selenium	Not detected	0.40		mg/kg	249	7782-49-2	
Silver	Not detected	0.20		mg/kg	249	7440-22-4	
Thallium	Not detected	0.20		mg/kg	249	7440-28-0	
Vanadium	8.48	0.50		mg/kg	249	7440-62-2	
Zinc	545	0.50		mg/kg	249	7440-66-6	

Method: SW7471B, Run Date: 03/26/19 15:47, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.103	0.050		mg/kg	63	7439-97-6	

Lab Sample ID: S99915.09 (continued)
Sample Tag: SB-10-30(1-3)_03142019

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/20/19 12:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	200	12674-11-2	Y
PCB-1242	7,000	1,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	200	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	200	11096-82-5	Y

Organics - Semi-Volatiles

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/26/19 18:18, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330	120	ug/kg	6	83-32-9	
Acenaphthylene	Not detected	330	110	ug/kg	6	208-96-8	
Anthracene	Not detected	330	110	ug/kg	6	120-12-7	
4-Bromophenyl phenyl ether	Not detected	330	110	ug/kg	6	101-55-3	
di-n-Butyl phthalate	Not detected	330	130	ug/kg	6	84-74-2	
Benzo(a)anthracene	Not detected	330	120	ug/kg	6	56-55-3	
Benzo(a)pyrene	Not detected	330	120	ug/kg	6	50-32-8	
Benzo(b)fluoranthene	Not detected	330	120	ug/kg	6	205-99-2	
Benzo(ghi)perylene	Not detected	330	150	ug/kg	6	191-24-2	
Benzo(k)fluoranthene	Not detected	330	130	ug/kg	6	207-08-9	
Butyl benzyl phthalate	Not detected	330	110	ug/kg	6	85-68-7	
2-Chloronaphthalene	Not detected	330	99	ug/kg	6	91-58-7	
2-Chlorophenol	Not detected	330	86	ug/kg	6	95-57-8	
4-Chloro-3-methylphenol	Not detected	330	91	ug/kg	6	59-50-7	
4-Chloroaniline	Not detected	670	79	ug/kg	6	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	330	100	ug/kg	6	7005-72-3	
bis(2-Chloroethoxy)methane	Not detected	330	100	ug/kg	6	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330	98	ug/kg	6	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330	100	ug/kg	6	108-60-1	
Chrysene	Not detected	330	110	ug/kg	6	218-01-9	
2,4-Dichlorophenol	Not detected	330	80	ug/kg	6	120-83-2	
2,4-Dimethylphenol	Not detected	330	170	ug/kg	6	105-67-9	
2,4-Dinitrophenol	Not detected	670	25	ug/kg	6	51-28-5	
2,4-Dinitrotoluene	Not detected	330	96	ug/kg	6	121-14-2	
2,6-Dinitrotoluene	Not detected	330	79	ug/kg	6	606-20-2	
3,3'-Dichlorobenzidine	Not detected	670	61	ug/kg	6	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	670	42	ug/kg	6	534-52-1	
Dibenzo(ah)anthracene	Not detected	330	150	ug/kg	6	53-70-3	
Dibenzofuran	Not detected	330	97	ug/kg	6	132-64-9	
Diethyl phthalate	Not detected	330	120	ug/kg	6	84-66-2	
Dimethyl phthalate	Not detected	330	110	ug/kg	6	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	330	150	ug/kg	6	117-81-7	
Fluoranthene	Not detected	330	110	ug/kg	6	206-44-0	
Fluorene	Not detected	330	110	ug/kg	6	86-73-7	
Hexachlorobenzene	Not detected	330	99	ug/kg	6	118-74-1	
Hexachlorobutadiene	Not detected	330	87	ug/kg	6	87-68-3	
Hexachlorocyclopentadiene	Not detected	330	58	ug/kg	6	77-47-4	

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S99915.09 (continued)
Sample Tag: SB-10-30(1-3)_03142019

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/26/19 18:18, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hexachloroethane	Not detected	330	80	ug/kg	6	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	330	150	ug/kg	6	193-39-5	
Isophorone	Not detected	330	91	ug/kg	6	78-59-1	
2-Methylnaphthalene	Not detected	330	95	ug/kg	6	91-57-6	
2-Methylphenol (o-Cresol)	Not detected	330	120	ug/kg	6	95-48-7	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330	190	ug/kg	6	3/4-CRESOL	
2-Nitroaniline	Not detected	670	84	ug/kg	6	88-74-4	
2-Nitrophenol	Not detected	330	67	ug/kg	6	88-75-5	
3-Nitroaniline	Not detected	670	75	ug/kg	6	99-09-2	
4-Nitroaniline	Not detected	670	72	ug/kg	6	100-01-6	
4-Nitrophenol	Not detected	670	52	ug/kg	6	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	330	110	ug/kg	6	621-64-7	
N-Nitrosodiphenylamine	Not detected	330	120	ug/kg	6	86-30-6	
Naphthalene	Not detected	330	100	ug/kg	6	91-20-3	
Nitrobenzene	Not detected	200	100	ug/kg	6	98-95-3	
di-n-Octyl phthalate	Not detected	330	140	ug/kg	6	117-84-0	
Pentachlorophenol	Not detected	670	43	ug/kg	6	87-86-5	
Phenanthrene	Not detected	330	130	ug/kg	6	85-01-8	
Phenol	Not detected	330	85	ug/kg	6	108-95-2	
Pyrene	Not detected	330	130	ug/kg	6	129-00-0	
2,4,5-Trichlorophenol	Not detected	330	82	ug/kg	6	95-95-4	
2,4,6-Trichlorophenol	Not detected	330	75	ug/kg	6	88-06-2	

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/26/19 18:18, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzaldehyde	Not detected	330	83	ug/kg	6	100-52-7	
Acetophenone	Not detected	330	87	ug/kg	6	98-86-2	
Caprolactam	Not detected	330	56	ug/kg	6	105-60-2	
Carbazole	Not detected	330	99	ug/kg	6	86-74-8	
1,1'-Biphenyl	Not detected	330	110	ug/kg	6	92-52-4	
Atrazine	Not detected	330	100	ug/kg	6	1912-24-9	

Organics - Volatiles

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/16/19 02:28, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	100		ug/kg	72.8	76-13-1	
Acetone	Not detected	1,100		ug/kg	72.8	67-64-1	
Carbon disulfide	Not detected	400		ug/kg	72.8	75-15-0	
Methyl Acetate	Not detected	4,000		ug/kg	72.8	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	400		ug/kg	72.8	1634-04-4	
2-Butanone (MEK)	Not detected	1,100		ug/kg	72.8	78-93-3	
Dichlorodifluoromethane	Not detected	70		ug/kg	72.8	75-71-8	
Chloromethane	Not detected	400		ug/kg	72.8	74-87-3	
Vinyl chloride	Not detected	100		ug/kg	72.8	75-01-4	
Bromomethane	Not detected	400		ug/kg	72.8	74-83-9	
Chloroethane	Not detected	400		ug/kg	72.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	72.8	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	72.8	75-35-4	
Methylene chloride	Not detected	400		ug/kg	72.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	72.8	156-60-5	

Lab Sample ID: S99915.09 (continued)
Sample Tag: SB-10-30(1-3)_03142019

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/16/19 02:28, Analyst: JML (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1-Dichloroethane	Not detected	70		ug/kg	72.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	72.8	156-59-2	
Chloroform	Not detected	70		ug/kg	72.8	67-66-3	
1,1,1-Trichloroethane	Not detected	70		ug/kg	72.8	71-55-6	
Cyclohexane	Not detected	70		ug/kg	72.8	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	72.8	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	72.8	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	72.8	56-23-5	
Benzene	Not detected	70		ug/kg	72.8	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	72.8	107-06-2	
Trichloroethene	Not detected	70		ug/kg	72.8	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	72.8	78-87-5	
Bromodichloromethane	Not detected	70		ug/kg	72.8	75-27-4	
Methyl cyclohexane	Not detected	70		ug/kg	72.8	108-87-2	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	72.8	10061-01-5	
Toluene	Not detected	70		ug/kg	72.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	72.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	72.8	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	72.8	127-18-4	
Dibromochloromethane	Not detected	70		ug/kg	72.8	124-48-1	
1,2-Dibromoethane	Not detected	70		ug/kg	72.8	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	72.8	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	72.8	79-34-5	
Ethylbenzene	Not detected	70		ug/kg	72.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	72.8		
o-Xylene	Not detected	70		ug/kg	72.8	95-47-6	
Styrene	Not detected	70		ug/kg	72.8	100-42-5	
Isopropylbenzene	Not detected	70		ug/kg	72.8	98-82-8	
Bromoform	Not detected	70		ug/kg	72.8	75-25-2	
1,3-Dichlorobenzene	Not detected	70		ug/kg	72.8	541-73-1	
1,4-Dichlorobenzene	Not detected	70		ug/kg	72.8	106-46-7	
1,2-Dichlorobenzene	Not detected	70		ug/kg	72.8	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	70		ug/kg	72.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	100		ug/kg	72.8	120-82-1	
n-Propylbenzene	Not detected	70		ug/kg	72.8	103-65-1	
Naphthalene	Not detected	70		ug/kg	72.8	91-20-3	

M-Result reported to MDL not RDL

Lab Sample ID: S99915.10
Sample Tag: SB-10-30(8-10)_03142019
Collected Date/Time: 03/14/2019 12:20
Matrix: Soil
COC Reference: 109067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/20/19 11:00	CCM	
BNA Extraction*	Completed	SW3546	03/20/19 21:16	ANW	
Extraction, PCB*	Completed	SW3546	03/19/19 16:37	ANW	
Mercury Digestion	Completed	SW7471B	03/26/19 10:45	JRH	

Inorganics

Method: E335.4/SM4500-CN, Run Date: 03/18/19 14:24, Analyst: JDP

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide*	Not detected	0.05	0.01	mg/kg	24	57-12-5	

Method: SM2540B, Run Date: 03/15/19 15:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Metals

Method: SW6020A, Run Date: 03/20/19 13:15, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Antimony	Not detected	0.50		mg/kg	228	7440-36-0	
Arsenic	7.01	0.20		mg/kg	228	7440-38-2	
Barium	14.6	1.0		mg/kg	228	7440-39-3	
Beryllium	Not detected	0.20		mg/kg	228	7440-41-7	
Cadmium	Not detected	0.20		mg/kg	228	7440-43-9	
Chromium	36.5	0.50		mg/kg	228	7440-47-3	
Cobalt	5.19	0.50		mg/kg	228	7440-48-4	
Copper	96.9	0.50		mg/kg	228	7440-50-8	
Lead	31.3	0.30		mg/kg	228	7439-92-1	
Manganese	282	0.50		mg/kg	228	7439-96-5	
Nickel	29.3	0.50		mg/kg	228	7440-02-0	
Selenium	Not detected	0.40		mg/kg	228	7782-49-2	
Silver	Not detected	0.20		mg/kg	228	7440-22-4	
Thallium	Not detected	0.20		mg/kg	228	7440-28-0	
Vanadium	16.9	0.50		mg/kg	228	7440-62-2	
Zinc	24.1	0.50		mg/kg	228	7440-66-6	

Method: SW7471B, Run Date: 03/26/19 15:49, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	58	7439-97-6	

Lab Sample ID: S99915.10 (continued)
Sample Tag: SB-10-30(8-10)_03142019

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/20/19 12:51, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/26/19 18:46, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330	120	ug/kg	6	83-32-9	
Acenaphthylene	Not detected	330	110	ug/kg	6	208-96-8	
Anthracene	Not detected	330	110	ug/kg	6	120-12-7	
4-Bromophenyl phenyl ether	Not detected	330	110	ug/kg	6	101-55-3	
di-n-Butyl phthalate	Not detected	330	130	ug/kg	6	84-74-2	
Benzo(a)anthracene	Not detected	330	120	ug/kg	6	56-55-3	
Benzo(a)pyrene	Not detected	330	120	ug/kg	6	50-32-8	
Benzo(b)fluoranthene	Not detected	330	120	ug/kg	6	205-99-2	
Benzo(ghi)perylene	Not detected	330	150	ug/kg	6	191-24-2	
Benzo(k)fluoranthene	Not detected	330	130	ug/kg	6	207-08-9	
Butyl benzyl phthalate	Not detected	330	110	ug/kg	6	85-68-7	
2-Chloronaphthalene	Not detected	330	99	ug/kg	6	91-58-7	
2-Chlorophenol	Not detected	330	86	ug/kg	6	95-57-8	
4-Chloro-3-methylphenol	Not detected	330	91	ug/kg	6	59-50-7	
4-Chloroaniline	Not detected	670	79	ug/kg	6	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	330	100	ug/kg	6	7005-72-3	
bis(2-Chloroethoxy)methane	Not detected	330	100	ug/kg	6	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330	98	ug/kg	6	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330	100	ug/kg	6	108-60-1	
Chrysene	Not detected	330	110	ug/kg	6	218-01-9	
2,4-Dichlorophenol	Not detected	330	80	ug/kg	6	120-83-2	
2,4-Dimethylphenol	Not detected	330	170	ug/kg	6	105-67-9	
2,4-Dinitrophenol	Not detected	670	25	ug/kg	6	51-28-5	
2,4-Dinitrotoluene	Not detected	330	96	ug/kg	6	121-14-2	
2,6-Dinitrotoluene	Not detected	330	79	ug/kg	6	606-20-2	
3,3'-Dichlorobenzidine	Not detected	670	61	ug/kg	6	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	670	42	ug/kg	6	534-52-1	
Dibenzo(ah)anthracene	Not detected	330	150	ug/kg	6	53-70-3	
Dibenzofuran	Not detected	330	97	ug/kg	6	132-64-9	
Diethyl phthalate	Not detected	330	120	ug/kg	6	84-66-2	
Dimethyl phthalate	Not detected	330	110	ug/kg	6	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	330	150	ug/kg	6	117-81-7	
Fluoranthene	Not detected	330	110	ug/kg	6	206-44-0	
Fluorene	Not detected	330	110	ug/kg	6	86-73-7	
Hexachlorobenzene	Not detected	330	99	ug/kg	6	118-74-1	
Hexachlorobutadiene	Not detected	330	87	ug/kg	6	87-68-3	
Hexachlorocyclopentadiene	Not detected	330	58	ug/kg	6	77-47-4	
Hexachloroethane	Not detected	330	80	ug/kg	6	67-72-1	

Lab Sample ID: S99915.10 (continued)
Sample Tag: SB-10-30(8-10)_03142019

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/26/19 18:46, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Indeno(1,2,3-cd)pyrene	Not detected	330	150	ug/kg	6	193-39-5	
Isophorone	Not detected	330	91	ug/kg	6	78-59-1	
2-Methylnaphthalene	Not detected	330	95	ug/kg	6	91-57-6	
2-Methylphenol (o-Cresol)	Not detected	330	120	ug/kg	6	95-48-7	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330	190	ug/kg	6	3/4-CRESOL	
2-Nitroaniline	Not detected	670	84	ug/kg	6	88-74-4	
2-Nitrophenol	Not detected	330	67	ug/kg	6	88-75-5	
3-Nitroaniline	Not detected	670	75	ug/kg	6	99-09-2	
4-Nitroaniline	Not detected	670	72	ug/kg	6	100-01-6	
4-Nitrophenol	Not detected	670	52	ug/kg	6	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	330	110	ug/kg	6	621-64-7	
N-Nitrosodiphenylamine	Not detected	330	120	ug/kg	6	86-30-6	
Naphthalene	Not detected	330	100	ug/kg	6	91-20-3	
Nitrobenzene	Not detected	200	100	ug/kg	6	98-95-3	
di-n-Octyl phthalate	Not detected	330	140	ug/kg	6	117-84-0	
Pentachlorophenol	Not detected	670	43	ug/kg	6	87-86-5	
Phenanthrene	Not detected	330	130	ug/kg	6	85-01-8	
Phenol	Not detected	330	85	ug/kg	6	108-95-2	
Pyrene	Not detected	330	130	ug/kg	6	129-00-0	
2,4,5-Trichlorophenol	Not detected	330	82	ug/kg	6	95-95-4	
2,4,6-Trichlorophenol	Not detected	330	75	ug/kg	6	88-06-2	

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/26/19 18:46, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzaldehyde	Not detected	330	83	ug/kg	6	100-52-7	
Acetophenone	Not detected	330	87	ug/kg	6	98-86-2	
Caprolactam	Not detected	330	56	ug/kg	6	105-60-2	
Carbazole	Not detected	330	99	ug/kg	6	86-74-8	
1,1'-Biphenyl	Not detected	330	110	ug/kg	6	92-52-4	
Atrazine	Not detected	330	100	ug/kg	6	1912-24-9	

Organics - Volatiles

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/16/19 02:46, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	100		ug/kg	70.8	76-13-1	
Acetone	Not detected	1,100		ug/kg	70.8	67-64-1	
Carbon disulfide	Not detected	400		ug/kg	70.8	75-15-0	
Methyl Acetate	Not detected	4,000		ug/kg	70.8	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	400		ug/kg	70.8	1634-04-4	
2-Butanone (MEK)	Not detected	1,100		ug/kg	70.8	78-93-3	
Dichlorodifluoromethane	Not detected	70		ug/kg	70.8	75-71-8	
Chloromethane	Not detected	400		ug/kg	70.8	74-87-3	
Vinyl chloride	Not detected	100		ug/kg	70.8	75-01-4	
Bromomethane	Not detected	400		ug/kg	70.8	74-83-9	
Chloroethane	Not detected	400		ug/kg	70.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	70.8	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	70.8	75-35-4	
Methylene chloride	Not detected	400		ug/kg	70.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	70.8	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	70.8	75-34-3	

Lab Sample ID: S99915.10 (continued)
Sample Tag: SB-10-30(8-10)_03142019

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/16/19 02:46, Analyst: JML (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	70		ug/kg	70.8	156-59-2	
Chloroform	Not detected	70		ug/kg	70.8	67-66-3	
1,1,1-Trichloroethane	Not detected	70		ug/kg	70.8	71-55-6	
Cyclohexane	Not detected	70		ug/kg	70.8	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	70.8	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	70.8	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	70.8	56-23-5	
Benzene	Not detected	70		ug/kg	70.8	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	70.8	107-06-2	
Trichloroethene	Not detected	70		ug/kg	70.8	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	70.8	78-87-5	
Bromodichloromethane	Not detected	70		ug/kg	70.8	75-27-4	
Methyl cyclohexane	Not detected	70		ug/kg	70.8	108-87-2	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	70.8	10061-01-5	
Toluene	Not detected	70		ug/kg	70.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	70.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	70.8	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	70.8	127-18-4	
Dibromochloromethane	Not detected	70		ug/kg	70.8	124-48-1	
1,2-Dibromoethane	Not detected	70		ug/kg	70.8	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	70.8	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	70.8	79-34-5	
Ethylbenzene	Not detected	70		ug/kg	70.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	70.8		
o-Xylene	Not detected	70		ug/kg	70.8	95-47-6	
Styrene	Not detected	70		ug/kg	70.8	100-42-5	
Isopropylbenzene	Not detected	70		ug/kg	70.8	98-82-8	
Bromoform	Not detected	70		ug/kg	70.8	75-25-2	
1,3-Dichlorobenzene	Not detected	70		ug/kg	70.8	541-73-1	
1,4-Dichlorobenzene	Not detected	70		ug/kg	70.8	106-46-7	
1,2-Dichlorobenzene	Not detected	70		ug/kg	70.8	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	70		ug/kg	70.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	100		ug/kg	70.8	120-82-1	
n-Propylbenzene	Not detected	70		ug/kg	70.8	103-65-1	
Naphthalene	Not detected	70		ug/kg	70.8	91-20-3	

M-Result reported to MDL not RDL

Lab Sample ID: S99915.11
Sample Tag: SB-10-32(1-3)_03142019
Collected Date/Time: 03/14/2019 10:35
Matrix: Soil
COC Reference: 109067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/20/19 11:00	CCM	
BNA Extraction*	Completed	SW3546	03/19/19 16:41	ANW	
Extraction, PCB*	Completed	SW3546	03/19/19 16:37	ANW	
Mercury Digestion	Completed	SW7471B	03/26/19 10:45	JRH	

Inorganics

Method: E335.4/SM4500-CN, Run Date: 03/18/19 14:26, Analyst: JDP

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide*	0.10	0.05	0.01	mg/kg	23	57-12-5	

Method: SM2540B, Run Date: 03/15/19 15:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Metals

Method: SW6020A, Run Date: 03/20/19 13:18, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Antimony	Not detected	0.50		mg/kg	222	7440-36-0	
Arsenic	2.53	0.20		mg/kg	222	7440-38-2	
Barium	244	1.0		mg/kg	222	7440-39-3	
Beryllium	0.31	0.20		mg/kg	222	7440-41-7	
Cadmium	0.60	0.20		mg/kg	222	7440-43-9	
Chromium	19.8	0.50		mg/kg	222	7440-47-3	
Cobalt	3.08	0.50		mg/kg	222	7440-48-4	
Copper	71.1	0.50		mg/kg	222	7440-50-8	
Lead	197	0.30		mg/kg	222	7439-92-1	
Manganese	443	0.50		mg/kg	222	7439-96-5	
Nickel	15.4	0.50		mg/kg	222	7440-02-0	
Selenium	Not detected	0.40		mg/kg	222	7782-49-2	
Silver	Not detected	0.20		mg/kg	222	7440-22-4	
Thallium	Not detected	0.20		mg/kg	222	7440-28-0	
Vanadium	7.21	0.50		mg/kg	222	7440-62-2	
Zinc	38.9	0.50		mg/kg	222	7440-66-6	

Method: SW7471B, Run Date: 03/26/19 15:51, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.052	0.050		mg/kg	56	7439-97-6	

Lab Sample ID: S99915.11 (continued)
Sample Tag: SB-10-32(1-3)_03142019

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/20/19 13:51, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/22/19 01:52, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330	110	ug/kg	6	83-32-9	
Acenaphthylene	Not detected	330	100	ug/kg	6	208-96-8	
Anthracene	Not detected	330	100	ug/kg	6	120-12-7	
4-Bromophenyl phenyl ether	Not detected	330	100	ug/kg	6	101-55-3	
di-n-Butyl phthalate	Not detected	330	120	ug/kg	6	84-74-2	
Benzo(a)anthracene	Not detected	330	110	ug/kg	6	56-55-3	
Benzo(a)pyrene	Not detected	330	110	ug/kg	6	50-32-8	
Benzo(b)fluoranthene	Not detected	330	110	ug/kg	6	205-99-2	
Benzo(ghi)perylene	Not detected	330	140	ug/kg	6	191-24-2	
Benzo(k)fluoranthene	Not detected	330	120	ug/kg	6	207-08-9	
Butyl benzyl phthalate	Not detected	330	100	ug/kg	6	85-68-7	
2-Chloronaphthalene	Not detected	330	93	ug/kg	6	91-58-7	
2-Chlorophenol	Not detected	330	81	ug/kg	6	95-57-8	
4-Chloro-3-methylphenol	Not detected	330	86	ug/kg	6	59-50-7	
4-Chloroaniline	Not detected	670	75	ug/kg	6	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	330	99	ug/kg	6	7005-72-3	
bis(2-Chloroethoxy)methane	Not detected	330	95	ug/kg	6	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330	92	ug/kg	6	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330	96	ug/kg	6	108-60-1	
Chrysene	Not detected	330	110	ug/kg	6	218-01-9	
2,4-Dichlorophenol	Not detected	330	76	ug/kg	6	120-83-2	
2,4-Dimethylphenol	Not detected	330	160	ug/kg	6	105-67-9	
2,4-Dinitrophenol	Not detected	670	24	ug/kg	6	51-28-5	
2,4-Dinitrotoluene	Not detected	330	90	ug/kg	6	121-14-2	
2,6-Dinitrotoluene	Not detected	330	74	ug/kg	6	606-20-2	
3,3'-Dichlorobenzidine	Not detected	670	58	ug/kg	6	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	670	39	ug/kg	6	534-52-1	
Dibenzo(ah)anthracene	Not detected	330	140	ug/kg	6	53-70-3	
Dibenzofuran	Not detected	330	92	ug/kg	6	132-64-9	
Diethyl phthalate	Not detected	330	110	ug/kg	6	84-66-2	
Dimethyl phthalate	Not detected	330	100	ug/kg	6	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	330	140	ug/kg	6	117-81-7	
Fluoranthene	Not detected	330	100	ug/kg	6	206-44-0	
Fluorene	Not detected	330	100	ug/kg	6	86-73-7	
Hexachlorobenzene	Not detected	330	93	ug/kg	6	118-74-1	
Hexachlorobutadiene	Not detected	330	82	ug/kg	6	87-68-3	
Hexachlorocyclopentadiene	Not detected	330	55	ug/kg	6	77-47-4	
Hexachloroethane	Not detected	330	76	ug/kg	6	67-72-1	

Lab Sample ID: S99915.11 (continued)
Sample Tag: SB-10-32(1-3)_03142019

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/22/19 01:52, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Indeno(1,2,3-cd)pyrene	Not detected	330	140	ug/kg	6	193-39-5	
Isophorone	Not detected	330	86	ug/kg	6	78-59-1	
2-Methylnaphthalene	Not detected	330	90	ug/kg	6	91-57-6	
2-Methylphenol (o-Cresol)	Not detected	330	110	ug/kg	6	95-48-7	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330	180	ug/kg	6	3/4-CRESOL	
2-Nitroaniline	Not detected	670	79	ug/kg	6	88-74-4	
2-Nitrophenol	Not detected	330	63	ug/kg	6	88-75-5	
3-Nitroaniline	Not detected	670	71	ug/kg	6	99-09-2	
4-Nitroaniline	Not detected	670	68	ug/kg	6	100-01-6	
4-Nitrophenol	Not detected	670	49	ug/kg	6	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	330	110	ug/kg	6	621-64-7	
N-Nitrosodiphenylamine	Not detected	330	110	ug/kg	6	86-30-6	
Naphthalene	Not detected	330	94	ug/kg	6	91-20-3	
Nitrobenzene	Not detected	200	97	ug/kg	6	98-95-3	
di-n-Octyl phthalate	Not detected	330	130	ug/kg	6	117-84-0	
Pentachlorophenol	Not detected	670	40	ug/kg	6	87-86-5	
Phenanthrene	Not detected	330	130	ug/kg	6	85-01-8	
Phenol	Not detected	330	80	ug/kg	6	108-95-2	
Pyrene	Not detected	330	120	ug/kg	6	129-00-0	
2,4,5-Trichlorophenol	Not detected	330	78	ug/kg	6	95-95-4	
2,4,6-Trichlorophenol	Not detected	330	71	ug/kg	6	88-06-2	

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/22/19 01:52, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzaldehyde	Not detected	330	79	ug/kg	6	100-52-7	
Acetophenone	Not detected	330	82	ug/kg	6	98-86-2	
Caprolactam	Not detected	330	53	ug/kg	6	105-60-2	
Carbazole	Not detected	330	93	ug/kg	6	86-74-8	
1,1'-Biphenyl	Not detected	330	100	ug/kg	6	92-52-4	
Atrazine	Not detected	330	99	ug/kg	6	1912-24-9	

Organics - Volatiles

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/19/19 20:00, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	100		ug/kg	64.7	76-13-1	
Acetone	Not detected	970		ug/kg	64.7	67-64-1	
Carbon disulfide	Not detected	300		ug/kg	64.7	75-15-0	
Methyl Acetate	Not detected	3,000		ug/kg	64.7	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	64.7	1634-04-4	
2-Butanone (MEK)	Not detected	970		ug/kg	64.7	78-93-3	
Dichlorodifluoromethane	Not detected	60		ug/kg	64.7	75-71-8	
Chloromethane	Not detected	300		ug/kg	64.7	74-87-3	
Vinyl chloride	Not detected	100		ug/kg	64.7	75-01-4	
Bromomethane	Not detected	300		ug/kg	64.7	74-83-9	
Chloroethane	Not detected	300		ug/kg	64.7	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	64.7	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	64.7	75-35-4	
Methylene chloride	Not detected	300		ug/kg	64.7	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	64.7	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	64.7	75-34-3	

Lab Sample ID: S99915.11 (continued)
Sample Tag: SB-10-32(1-3)_03142019

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/19/19 20:00, Analyst: JML (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	60		ug/kg	64.7	156-59-2	
Chloroform	Not detected	60		ug/kg	64.7	67-66-3	
1,1,1-Trichloroethane	Not detected	60		ug/kg	64.7	71-55-6	
Cyclohexane	Not detected	60		ug/kg	64.7	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	64.7	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	64.7	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	64.7	56-23-5	
Benzene	Not detected	60		ug/kg	64.7	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	64.7	107-06-2	
Trichloroethene	Not detected	60		ug/kg	64.7	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	64.7	78-87-5	
Bromodichloromethane	Not detected	60		ug/kg	64.7	75-27-4	
Methyl cyclohexane	Not detected	60		ug/kg	64.7	108-87-2	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	64.7	10061-01-5	
Toluene	Not detected	60		ug/kg	64.7	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	64.7	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	64.7	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	64.7	127-18-4	
Dibromochloromethane	Not detected	60		ug/kg	64.7	124-48-1	
1,2-Dibromoethane	Not detected	60		ug/kg	64.7	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	64.7	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	64.7	79-34-5	
Ethylbenzene	Not detected	60		ug/kg	64.7	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	64.7		
o-Xylene	Not detected	60		ug/kg	64.7	95-47-6	
Styrene	Not detected	60		ug/kg	64.7	100-42-5	
Isopropylbenzene	Not detected	60		ug/kg	64.7	98-82-8	
Bromoform	Not detected	60		ug/kg	64.7	75-25-2	
1,3-Dichlorobenzene	Not detected	60		ug/kg	64.7	541-73-1	
1,4-Dichlorobenzene	Not detected	60		ug/kg	64.7	106-46-7	
1,2-Dichlorobenzene	Not detected	60		ug/kg	64.7	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	60		ug/kg	64.7	96-12-8	
1,2,4-Trichlorobenzene	Not detected	100		ug/kg	64.7	120-82-1	
n-Propylbenzene	Not detected	60		ug/kg	64.7	103-65-1	
Naphthalene	Not detected	60		ug/kg	64.7	91-20-3	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S99915.12
Sample Tag: SB-10-32(7-9)_03142019
Collected Date/Time: 03/14/2019 10:40
Matrix: Soil
COC Reference: 109067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/20/19 11:00	CCM	
BNA Extraction*	Completed	SW3546	03/19/19 16:41	ANW	
Extraction, PCB*	Completed	SW3546	03/19/19 16:37	ANW	
Mercury Digestion	Completed	SW7471B	03/26/19 10:45	JRH	

Inorganics

Method: E335.4/SM4500-CN, Run Date: 03/18/19 14:28, Analyst: JDP

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide*	Not detected	0.05	0.01	mg/kg	24	57-12-5	

Method: SM2540B, Run Date: 03/15/19 15:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Metals

Method: SW6020A, Run Date: 03/20/19 13:21, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Antimony	Not detected	0.50		mg/kg	238	7440-36-0	
Arsenic	6.31	0.20		mg/kg	238	7440-38-2	
Barium	73.0	1.0		mg/kg	238	7440-39-3	
Beryllium	0.31	0.20		mg/kg	238	7440-41-7	
Cadmium	0.37	0.20		mg/kg	238	7440-43-9	
Chromium	65.6	0.50		mg/kg	238	7440-47-3	
Cobalt	4.69	0.50		mg/kg	238	7440-48-4	
Copper	120	0.50		mg/kg	238	7440-50-8	
Lead	121	0.30		mg/kg	238	7439-92-1	
Manganese	475	0.50		mg/kg	238	7439-96-5	
Nickel	42.5	0.50		mg/kg	238	7440-02-0	
Selenium	0.84	0.40		mg/kg	238	7782-49-2	
Silver	Not detected	0.20		mg/kg	238	7440-22-4	
Thallium	Not detected	0.20		mg/kg	238	7440-28-0	
Vanadium	13.5	0.50		mg/kg	238	7440-62-2	
Zinc	136	0.50		mg/kg	238	7440-66-6	

Method: SW7471B, Run Date: 03/26/19 15:53, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.109	0.050		mg/kg	56	7439-97-6	

Lab Sample ID: S99915.12 (continued)
Sample Tag: SB-10-32(7-9)_03142019

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/20/19 13:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/26/19 05:55, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330	120	ug/kg	6	83-32-9	
Acenaphthylene	Not detected	330	100	ug/kg	6	208-96-8	
Anthracene	Not detected	330	110	ug/kg	6	120-12-7	
4-Bromophenyl phenyl ether	Not detected	330	110	ug/kg	6	101-55-3	
di-n-Butyl phthalate	Not detected	330	130	ug/kg	6	84-74-2	
Benzo(a)anthracene	620	330	120	ug/kg	6	56-55-3	
Benzo(a)pyrene	640	330	120	ug/kg	6	50-32-8	
Benzo(b)fluoranthene	590	330	110	ug/kg	6	205-99-2	
Benzo(ghi)perylene	Not detected	330	150	ug/kg	6	191-24-2	
Benzo(k)fluoranthene	660	330	130	ug/kg	6	207-08-9	
Butyl benzyl phthalate	Not detected	330	110	ug/kg	6	85-68-7	
2-Chloronaphthalene	Not detected	330	98	ug/kg	6	91-58-7	
2-Chlorophenol	Not detected	330	85	ug/kg	6	95-57-8	
4-Chloro-3-methylphenol	Not detected	330	90	ug/kg	6	59-50-7	
4-Chloroaniline	Not detected	670	78	ug/kg	6	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	330	100	ug/kg	6	7005-72-3	
bis(2-Chloroethoxy)methane	Not detected	330	100	ug/kg	6	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330	97	ug/kg	6	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330	100	ug/kg	6	108-60-1	
Chrysene	610	330	110	ug/kg	6	218-01-9	
2,4-Dichlorophenol	Not detected	330	79	ug/kg	6	120-83-2	
2,4-Dimethylphenol	Not detected	330	160	ug/kg	6	105-67-9	
2,4-Dinitrophenol	Not detected	670	25	ug/kg	6	51-28-5	
2,4-Dinitrotoluene	Not detected	330	95	ug/kg	6	121-14-2	
2,6-Dinitrotoluene	Not detected	330	78	ug/kg	6	606-20-2	
3,3'-Dichlorobenzidine	Not detected	670	60	ug/kg	6	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	670	41	ug/kg	6	534-52-1	
Dibenzo(ah)anthracene	Not detected	330	150	ug/kg	6	53-70-3	
Dibenzofuran	Not detected	330	96	ug/kg	6	132-64-9	
Diethyl phthalate	Not detected	330	110	ug/kg	6	84-66-2	
Dimethyl phthalate	Not detected	330	110	ug/kg	6	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	330	150	ug/kg	6	117-81-7	
Fluoranthene	1,360	330	110	ug/kg	6	206-44-0	
Fluorene	Not detected	330	110	ug/kg	6	86-73-7	
Hexachlorobenzene	Not detected	330	98	ug/kg	6	118-74-1	
Hexachlorobutadiene	Not detected	330	86	ug/kg	6	87-68-3	
Hexachlorocyclopentadiene	Not detected	330	57	ug/kg	6	77-47-4	
Hexachloroethane	Not detected	330	80	ug/kg	6	67-72-1	

Lab Sample ID: S99915.12 (continued)
Sample Tag: SB-10-32(7-9)_03142019

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/26/19 05:55, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Indeno(1,2,3-cd)pyrene	Not detected	330	140	ug/kg	6	193-39-5	
Isophorone	Not detected	330	90	ug/kg	6	78-59-1	
2-Methylnaphthalene	Not detected	330	94	ug/kg	6	91-57-6	
2-Methylphenol (o-Cresol)	Not detected	330	120	ug/kg	6	95-48-7	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330	190	ug/kg	6	3/4-CRESOL	
2-Nitroaniline	Not detected	670	83	ug/kg	6	88-74-4	
2-Nitrophenol	Not detected	330	67	ug/kg	6	88-75-5	
3-Nitroaniline	Not detected	670	74	ug/kg	6	99-09-2	
4-Nitroaniline	Not detected	670	71	ug/kg	6	100-01-6	
4-Nitrophenol	Not detected	670	51	ug/kg	6	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	330	110	ug/kg	6	621-64-7	
N-Nitrosodiphenylamine	Not detected	330	120	ug/kg	6	86-30-6	
Naphthalene	Not detected	330	99	ug/kg	6	91-20-3	
Nitrobenzene	Not detected	200	100	ug/kg	6	98-95-3	
di-n-Octyl phthalate	Not detected	330	140	ug/kg	6	117-84-0	
Pentachlorophenol	Not detected	670	42	ug/kg	6	87-86-5	
Phenanthrene	1,050	330	130	ug/kg	6	85-01-8	
Phenol	Not detected	330	83	ug/kg	6	108-95-2	
Pyrene	1,070	330	120	ug/kg	6	129-00-0	
2,4,5-Trichlorophenol	Not detected	330	81	ug/kg	6	95-95-4	
2,4,6-Trichlorophenol	Not detected	330	74	ug/kg	6	88-06-2	

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/26/19 05:55, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzaldehyde	Not detected	330	82	ug/kg	6	100-52-7	
Acetophenone	Not detected	330	86	ug/kg	6	98-86-2	
Caprolactam	Not detected	330	55	ug/kg	6	105-60-2	
Carbazole	Not detected	330	98	ug/kg	6	86-74-8	
1,1'-Biphenyl	Not detected	330	100	ug/kg	6	92-52-4	
Atrazine	Not detected	330	100	ug/kg	6	1912-24-9	

Organics - Volatiles

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/16/19 03:05, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	200		ug/kg	82.5	76-13-1	
Acetone	Not detected	1,200		ug/kg	82.5	67-64-1	
Carbon disulfide	Not detected	400		ug/kg	82.5	75-15-0	
Methyl Acetate	Not detected	4,000		ug/kg	82.5	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	400		ug/kg	82.5	1634-04-4	
2-Butanone (MEK)	Not detected	1,200		ug/kg	82.5	78-93-3	
Dichlorodifluoromethane	Not detected	80		ug/kg	82.5	75-71-8	
Chloromethane	Not detected	400		ug/kg	82.5	74-87-3	
Vinyl chloride	Not detected	200		ug/kg	82.5	75-01-4	
Bromomethane	Not detected	400		ug/kg	82.5	74-83-9	
Chloroethane	Not detected	400		ug/kg	82.5	75-00-3	
Trichlorofluoromethane	Not detected	200		ug/kg	82.5	75-69-4	
1,1-Dichloroethene	Not detected	80		ug/kg	82.5	75-35-4	
Methylene chloride	Not detected	400		ug/kg	82.5	75-09-2	
trans-1,2-Dichloroethene	Not detected	80		ug/kg	82.5	156-60-5	
1,1-Dichloroethane	Not detected	80		ug/kg	82.5	75-34-3	

Lab Sample ID: S99915.12 (continued)
Sample Tag: SB-10-32(7-9)_03142019

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/16/19 03:05, Analyst: JML (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	80		ug/kg	82.5	156-59-2	
Chloroform	Not detected	80		ug/kg	82.5	67-66-3	
1,1,1-Trichloroethane	Not detected	80		ug/kg	82.5	71-55-6	
Cyclohexane	Not detected	80		ug/kg	82.5	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	82.5	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	82.5	591-78-6	
Carbon tetrachloride	Not detected	80		ug/kg	82.5	56-23-5	
Benzene	Not detected	80		ug/kg	82.5	71-43-2	
1,2-Dichloroethane	Not detected	80		ug/kg	82.5	107-06-2	
Trichloroethene	Not detected	80		ug/kg	82.5	79-01-6	
1,2-Dichloropropane	Not detected	80		ug/kg	82.5	78-87-5	
Bromodichloromethane	Not detected	80		ug/kg	82.5	75-27-4	
Methyl cyclohexane	Not detected	80		ug/kg	82.5	108-87-2	
cis-1,3-Dichloropropene	Not detected	80		ug/kg	82.5	10061-01-5	
Toluene	Not detected	80		ug/kg	82.5	108-88-3	
trans-1,3-Dichloropropene	Not detected	80		ug/kg	82.5	10061-02-6	
1,1,2-Trichloroethane	Not detected	80		ug/kg	82.5	79-00-5	
Tetrachloroethene	Not detected	80		ug/kg	82.5	127-18-4	
Dibromochloromethane	Not detected	80		ug/kg	82.5	124-48-1	
1,2-Dibromoethane	Not detected	80		ug/kg	82.5	106-93-4	M
Chlorobenzene	Not detected	80		ug/kg	82.5	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	80		ug/kg	82.5	79-34-5	
Ethylbenzene	Not detected	80		ug/kg	82.5	100-41-4	
p,m-Xylene	Not detected	200		ug/kg	82.5		
o-Xylene	Not detected	80		ug/kg	82.5	95-47-6	
Styrene	Not detected	80		ug/kg	82.5	100-42-5	
Isopropylbenzene	Not detected	80		ug/kg	82.5	98-82-8	
Bromoform	Not detected	80		ug/kg	82.5	75-25-2	
1,3-Dichlorobenzene	Not detected	80		ug/kg	82.5	541-73-1	
1,4-Dichlorobenzene	Not detected	80		ug/kg	82.5	106-46-7	
1,2-Dichlorobenzene	Not detected	80		ug/kg	82.5	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	80		ug/kg	82.5	96-12-8	
1,2,4-Trichlorobenzene	Not detected	200		ug/kg	82.5	120-82-1	
n-Propylbenzene	Not detected	80		ug/kg	82.5	103-65-1	
Naphthalene	Not detected	80		ug/kg	82.5	91-20-3	

M-Result reported to MDL not RDL

Lab Sample ID: S99915.13
Sample Tag: SB-10-32(10-12)_03142019
Collected Date/Time: 03/14/2019 10:40
Matrix: Soil
COC Reference: 109087

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/20/19 11:00	CCM	
BNA Extraction*	Completed	SW3546	03/19/19 16:41	ANW	
Extraction, PCB*	Completed	SW3546	03/19/19 16:37	ANW	
Mercury Digestion	Completed	SW7471B	03/26/19 10:45	JRH	

Inorganics

Method: E335.4/SM4500-CN, Run Date: 03/18/19 14:30, Analyst: JDP

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide*	Not detected	0.05	0.01	mg/kg	24	57-12-5	

Method: SM2540B, Run Date: 03/15/19 15:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Metals

Method: SW6020A, Run Date: 03/20/19 13:24, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Antimony	Not detected	0.50		mg/kg	227	7440-36-0	
Arsenic	4.17	0.20		mg/kg	227	7440-38-2	
Barium	41.5	1.0		mg/kg	227	7440-39-3	
Beryllium	0.39	0.20		mg/kg	227	7440-41-7	
Cadmium	0.49	0.20		mg/kg	227	7440-43-9	
Chromium	49.7	0.50		mg/kg	227	7440-47-3	
Cobalt	5.24	0.50		mg/kg	227	7440-48-4	
Copper	36.3	0.50		mg/kg	227	7440-50-8	
Lead	34.4	0.30		mg/kg	227	7439-92-1	
Manganese	783	0.50		mg/kg	227	7439-96-5	
Nickel	36.6	0.50		mg/kg	227	7440-02-0	
Selenium	0.51	0.40		mg/kg	227	7782-49-2	
Silver	Not detected	0.20		mg/kg	227	7440-22-4	
Thallium	Not detected	0.20		mg/kg	227	7440-28-0	
Vanadium	13.7	0.50		mg/kg	227	7440-62-2	
Zinc	48.4	0.50		mg/kg	227	7440-66-6	

Method: SW7471B, Run Date: 03/26/19 15:54, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	58	7439-97-6	

Lab Sample ID: S99915.13 (continued)
Sample Tag: SB-10-32(10-12)_03142019

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/20/19 14:01, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/22/19 02:21, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330	120	ug/kg	6	83-32-9	
Acenaphthylene	Not detected	330	110	ug/kg	6	208-96-8	
Anthracene	Not detected	330	110	ug/kg	6	120-12-7	
4-Bromophenyl phenyl ether	Not detected	330	110	ug/kg	6	101-55-3	
di-n-Butyl phthalate	Not detected	330	130	ug/kg	6	84-74-2	
Benzo(a)anthracene	Not detected	330	120	ug/kg	6	56-55-3	
Benzo(a)pyrene	Not detected	330	120	ug/kg	6	50-32-8	
Benzo(b)fluoranthene	Not detected	330	120	ug/kg	6	205-99-2	
Benzo(ghi)perylene	Not detected	330	150	ug/kg	6	191-24-2	
Benzo(k)fluoranthene	Not detected	330	130	ug/kg	6	207-08-9	
Butyl benzyl phthalate	Not detected	330	110	ug/kg	6	85-68-7	
2-Chloronaphthalene	Not detected	330	99	ug/kg	6	91-58-7	
2-Chlorophenol	Not detected	330	86	ug/kg	6	95-57-8	
4-Chloro-3-methylphenol	Not detected	330	91	ug/kg	6	59-50-7	
4-Chloroaniline	Not detected	670	79	ug/kg	6	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	330	100	ug/kg	6	7005-72-3	
bis(2-Chloroethoxy)methane	Not detected	330	100	ug/kg	6	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330	98	ug/kg	6	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330	100	ug/kg	6	108-60-1	
Chrysene	Not detected	330	110	ug/kg	6	218-01-9	
2,4-Dichlorophenol	Not detected	330	80	ug/kg	6	120-83-2	
2,4-Dimethylphenol	Not detected	330	170	ug/kg	6	105-67-9	
2,4-Dinitrophenol	Not detected	670	25	ug/kg	6	51-28-5	
2,4-Dinitrotoluene	Not detected	330	96	ug/kg	6	121-14-2	
2,6-Dinitrotoluene	Not detected	330	79	ug/kg	6	606-20-2	
3,3'-Dichlorobenzidine	Not detected	670	61	ug/kg	6	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	670	42	ug/kg	6	534-52-1	
Dibenzo(ah)anthracene	Not detected	330	150	ug/kg	6	53-70-3	
Dibenzofuran	Not detected	330	97	ug/kg	6	132-64-9	
Diethyl phthalate	Not detected	330	120	ug/kg	6	84-66-2	
Dimethyl phthalate	Not detected	330	110	ug/kg	6	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	330	150	ug/kg	6	117-81-7	
Fluoranthene	Not detected	330	110	ug/kg	6	206-44-0	
Fluorene	Not detected	330	110	ug/kg	6	86-73-7	
Hexachlorobenzene	Not detected	330	99	ug/kg	6	118-74-1	
Hexachlorobutadiene	Not detected	330	87	ug/kg	6	87-68-3	
Hexachlorocyclopentadiene	Not detected	330	58	ug/kg	6	77-47-4	
Hexachloroethane	Not detected	330	80	ug/kg	6	67-72-1	

Lab Sample ID: S99915.13 (continued)
Sample Tag: SB-10-32(10-12)_03142019

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/22/19 02:21, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Indeno(1,2,3-cd)pyrene	Not detected	330	150	ug/kg	6	193-39-5	
Isophorone	Not detected	330	91	ug/kg	6	78-59-1	
2-Methylnaphthalene	Not detected	330	95	ug/kg	6	91-57-6	
2-Methylphenol (o-Cresol)	Not detected	330	120	ug/kg	6	95-48-7	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330	190	ug/kg	6	3/4-CRESOL	
2-Nitroaniline	Not detected	670	84	ug/kg	6	88-74-4	
2-Nitrophenol	Not detected	330	67	ug/kg	6	88-75-5	
3-Nitroaniline	Not detected	670	75	ug/kg	6	99-09-2	
4-Nitroaniline	Not detected	670	72	ug/kg	6	100-01-6	
4-Nitrophenol	Not detected	670	52	ug/kg	6	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	330	110	ug/kg	6	621-64-7	
N-Nitrosodiphenylamine	Not detected	330	120	ug/kg	6	86-30-6	
Naphthalene	Not detected	330	100	ug/kg	6	91-20-3	
Nitrobenzene	Not detected	200	100	ug/kg	6	98-95-3	
di-n-Octyl phthalate	Not detected	330	140	ug/kg	6	117-84-0	
Pentachlorophenol	Not detected	670	43	ug/kg	6	87-86-5	
Phenanthrene	Not detected	330	130	ug/kg	6	85-01-8	
Phenol	Not detected	330	85	ug/kg	6	108-95-2	
Pyrene	Not detected	330	130	ug/kg	6	129-00-0	
2,4,5-Trichlorophenol	Not detected	330	82	ug/kg	6	95-95-4	
2,4,6-Trichlorophenol	Not detected	330	75	ug/kg	6	88-06-2	

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/22/19 02:21, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzaldehyde	Not detected	330	83	ug/kg	6	100-52-7	
Acetophenone	Not detected	330	87	ug/kg	6	98-86-2	
Caprolactam	Not detected	330	56	ug/kg	6	105-60-2	
Carbazole	Not detected	330	99	ug/kg	6	86-74-8	
1,1'-Biphenyl	Not detected	330	110	ug/kg	6	92-52-4	
Atrazine	Not detected	330	100	ug/kg	6	1912-24-9	

Organics - Volatiles

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/16/19 03:24, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	200		ug/kg	75.1	76-13-1	
Acetone	Not detected	1,100		ug/kg	75.1	67-64-1	
Carbon disulfide	Not detected	400		ug/kg	75.1	75-15-0	
Methyl Acetate	Not detected	4,000		ug/kg	75.1	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	400		ug/kg	75.1	1634-04-4	
2-Butanone (MEK)	Not detected	1,100		ug/kg	75.1	78-93-3	
Dichlorodifluoromethane	Not detected	80		ug/kg	75.1	75-71-8	
Chloromethane	Not detected	400		ug/kg	75.1	74-87-3	
Vinyl chloride	Not detected	200		ug/kg	75.1	75-01-4	
Bromomethane	Not detected	400		ug/kg	75.1	74-83-9	
Chloroethane	Not detected	400		ug/kg	75.1	75-00-3	
Trichlorofluoromethane	Not detected	200		ug/kg	75.1	75-69-4	
1,1-Dichloroethene	Not detected	80		ug/kg	75.1	75-35-4	
Methylene chloride	Not detected	400		ug/kg	75.1	75-09-2	
trans-1,2-Dichloroethene	Not detected	80		ug/kg	75.1	156-60-5	
1,1-Dichloroethane	Not detected	80		ug/kg	75.1	75-34-3	

Lab Sample ID: S99915.13 (continued)
Sample Tag: SB-10-32(10-12)_03142019

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/16/19 03:24, Analyst: JML (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	80		ug/kg	75.1	156-59-2	
Chloroform	Not detected	80		ug/kg	75.1	67-66-3	
1,1,1-Trichloroethane	Not detected	80		ug/kg	75.1	71-55-6	
Cyclohexane	Not detected	80		ug/kg	75.1	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	75.1	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	75.1	591-78-6	
Carbon tetrachloride	Not detected	80		ug/kg	75.1	56-23-5	
Benzene	Not detected	80		ug/kg	75.1	71-43-2	
1,2-Dichloroethane	Not detected	80		ug/kg	75.1	107-06-2	
Trichloroethene	Not detected	80		ug/kg	75.1	79-01-6	
1,2-Dichloropropane	Not detected	80		ug/kg	75.1	78-87-5	
Bromodichloromethane	Not detected	80		ug/kg	75.1	75-27-4	
Methyl cyclohexane	170	80		ug/kg	75.1	108-87-2	
cis-1,3-Dichloropropene	Not detected	80		ug/kg	75.1	10061-01-5	
Toluene	Not detected	80		ug/kg	75.1	108-88-3	
trans-1,3-Dichloropropene	Not detected	80		ug/kg	75.1	10061-02-6	
1,1,2-Trichloroethane	Not detected	80		ug/kg	75.1	79-00-5	
Tetrachloroethene	Not detected	80		ug/kg	75.1	127-18-4	
Dibromochloromethane	Not detected	80		ug/kg	75.1	124-48-1	
1,2-Dibromoethane	Not detected	80		ug/kg	75.1	106-93-4	M
Chlorobenzene	Not detected	80		ug/kg	75.1	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	80		ug/kg	75.1	79-34-5	
Ethylbenzene	Not detected	80		ug/kg	75.1	100-41-4	
p,m-Xylene	Not detected	200		ug/kg	75.1		
o-Xylene	Not detected	80		ug/kg	75.1	95-47-6	
Styrene	Not detected	80		ug/kg	75.1	100-42-5	
Isopropylbenzene	Not detected	80		ug/kg	75.1	98-82-8	
Bromoform	Not detected	80		ug/kg	75.1	75-25-2	
1,3-Dichlorobenzene	Not detected	80		ug/kg	75.1	541-73-1	
1,4-Dichlorobenzene	Not detected	80		ug/kg	75.1	106-46-7	
1,2-Dichlorobenzene	Not detected	80		ug/kg	75.1	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	80		ug/kg	75.1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	200		ug/kg	75.1	120-82-1	
n-Propylbenzene	Not detected	80		ug/kg	75.1	103-65-1	
Naphthalene	80	80		ug/kg	75.1	91-20-3	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S99915.14
Sample Tag: Dup-02(03142019)
Collected Date/Time: 03/14/2019 00:01
Matrix: Soil
COC Reference: 109087

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	03/20/19 11:00	CCM	
BNA Extraction*	Completed	SW3546	03/19/19 16:41	ANW	
Extraction, PCB*	Completed	SW3546	03/19/19 16:37	ANW	
Mercury Digestion	Completed	SW7471B	03/26/19 10:45	JRH	

Inorganics

Method: E335.4/SM4500-CN, Run Date: 03/18/19 14:32, Analyst: JDP

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cyanide*	Not detected	0.05	0.01	mg/kg	24	57-12-5	

Method: SM2540B, Run Date: 03/15/19 15:30, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1	1	%	1		

Metals

Method: SW6020A, Run Date: 03/20/19 13:27, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Antimony	Not detected	0.50		mg/kg	251	7440-36-0	
Arsenic	12.9	0.20		mg/kg	251	7440-38-2	
Barium	47.9	1.0		mg/kg	251	7440-39-3	
Beryllium	0.38	0.20		mg/kg	251	7440-41-7	
Cadmium	0.48	0.20		mg/kg	251	7440-43-9	
Chromium	149	0.50		mg/kg	251	7440-47-3	
Cobalt	8.45	0.50		mg/kg	251	7440-48-4	
Copper	296	0.50		mg/kg	251	7440-50-8	
Lead	54.5	0.30		mg/kg	251	7439-92-1	
Manganese	1,180	0.50		mg/kg	251	7439-96-5	
Nickel	96.8	0.50		mg/kg	251	7440-02-0	
Selenium	1.08	0.40		mg/kg	251	7782-49-2	
Silver	Not detected	0.20		mg/kg	251	7440-22-4	
Thallium	Not detected	0.20		mg/kg	251	7440-28-0	
Vanadium	24.3	0.50		mg/kg	251	7440-62-2	
Zinc	223	0.50		mg/kg	251	7440-66-6	

Method: SW7471B, Run Date: 03/26/19 15:56, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.244	0.050		mg/kg	59	7439-97-6	

Lab Sample ID: S99915.14 (continued)
Sample Tag: Dup-02(03142019)

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 03/20/19 13:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	

Organics - Semi-Volatiles

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/22/19 07:10, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	330	120	ug/kg	3	83-32-9	
Acenaphthylene	Not detected	330	100	ug/kg	3	208-96-8	
Anthracene	1,060	330	110	ug/kg	3	120-12-7	
4-Bromophenyl phenyl ether	Not detected	330	110	ug/kg	3	101-55-3	
di-n-Butyl phthalate	Not detected	330	130	ug/kg	3	84-74-2	
Benzo(a)anthracene	2,430	330	120	ug/kg	3	56-55-3	
Benzo(a)pyrene	2,530	330	120	ug/kg	3	50-32-8	
Benzo(b)fluoranthene	2,470	330	110	ug/kg	3	205-99-2	
Benzo(ghi)perylene	870	330	150	ug/kg	3	191-24-2	
Benzo(k)fluoranthene	2,200	330	130	ug/kg	3	207-08-9	
Butyl benzyl phthalate	Not detected	330	110	ug/kg	3	85-68-7	
2-Chloronaphthalene	Not detected	330	98	ug/kg	3	91-58-7	
2-Chlorophenol	Not detected	330	85	ug/kg	3	95-57-8	
4-Chloro-3-methylphenol	Not detected	330	90	ug/kg	3	59-50-7	
4-Chloroaniline	Not detected	670	78	ug/kg	3	106-47-8	
4-Chlorophenyl phenyl ether	Not detected	330	100	ug/kg	3	7005-72-3	
bis(2-Chloroethoxy)methane	Not detected	330	100	ug/kg	3	111-91-1	
bis(2-Chloroethyl)ether	Not detected	330	97	ug/kg	3	111-44-4	
bis(2-Chloroisopropyl)ether*	Not detected	330	100	ug/kg	3	108-60-1	
Chrysene	2,470	330	110	ug/kg	3	218-01-9	
2,4-Dichlorophenol	Not detected	330	79	ug/kg	3	120-83-2	
2,4-Dimethylphenol	Not detected	330	160	ug/kg	3	105-67-9	
2,4-Dinitrophenol	Not detected	670	25	ug/kg	3	51-28-5	
2,4-Dinitrotoluene	Not detected	330	95	ug/kg	3	121-14-2	
2,6-Dinitrotoluene	Not detected	330	78	ug/kg	3	606-20-2	
3,3'-Dichlorobenzidine	Not detected	670	60	ug/kg	3	91-94-1	
4,6-Dinitro-2-methylphenol	Not detected	670	41	ug/kg	3	534-52-1	
Dibenzo(ah)anthracene	Not detected	330	150	ug/kg	3	53-70-3	
Dibenzofuran	Not detected	330	96	ug/kg	3	132-64-9	
Diethyl phthalate	Not detected	330	110	ug/kg	3	84-66-2	
Dimethyl phthalate	Not detected	330	110	ug/kg	3	131-11-3	
bis(2-Ethylhexyl)phthalate	Not detected	330	150	ug/kg	3	117-81-7	
Fluoranthene	5,640	330	110	ug/kg	3	206-44-0	
Fluorene	350	330	110	ug/kg	3	86-73-7	
Hexachlorobenzene	Not detected	330	98	ug/kg	3	118-74-1	
Hexachlorobutadiene	Not detected	330	86	ug/kg	3	87-68-3	
Hexachlorocyclopentadiene	Not detected	330	57	ug/kg	3	77-47-4	
Hexachloroethane	Not detected	330	80	ug/kg	3	67-72-1	

Lab Sample ID: S99915.14 (continued)
Sample Tag: Dup-02(03142019)

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/22/19 07:10, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Indeno(1,2,3-cd)pyrene	810	330	140	ug/kg	3	193-39-5	
Isophorone	Not detected	330	90	ug/kg	3	78-59-1	
2-Methylnaphthalene	Not detected	330	94	ug/kg	3	91-57-6	
2-Methylphenol (o-Cresol)	Not detected	330	120	ug/kg	3	95-48-7	
3-, 4-Methylphenol (p,m-Cresol)	Not detected	330	190	ug/kg	3	3/4-CRESOL	
2-Nitroaniline	Not detected	670	83	ug/kg	3	88-74-4	
2-Nitrophenol	Not detected	330	67	ug/kg	3	88-75-5	
3-Nitroaniline	Not detected	670	74	ug/kg	3	99-09-2	
4-Nitroaniline	Not detected	670	71	ug/kg	3	100-01-6	
4-Nitrophenol	Not detected	670	51	ug/kg	3	100-02-7	
N-Nitrosodi-n-propylamine	Not detected	330	110	ug/kg	3	621-64-7	
N-Nitrosodiphenylamine	Not detected	330	120	ug/kg	3	86-30-6	
Naphthalene	Not detected	330	99	ug/kg	3	91-20-3	
Nitrobenzene	Not detected	200	100	ug/kg	3	98-95-3	
di-n-Octyl phthalate	Not detected	330	140	ug/kg	3	117-84-0	
Pentachlorophenol	Not detected	670	42	ug/kg	3	87-86-5	
Phenanthrene	4,190	330	130	ug/kg	3	85-01-8	
Phenol	Not detected	330	83	ug/kg	3	108-95-2	
Pyrene	4,200	330	120	ug/kg	3	129-00-0	
2,4,5-Trichlorophenol	Not detected	330	81	ug/kg	3	95-95-4	
2,4,6-Trichlorophenol	Not detected	330	74	ug/kg	3	88-06-2	

TCL Semi-Volatile Organics, Method: SW8270D, Run Date: 03/22/19 07:10, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Benzaldehyde	Not detected	330	82	ug/kg	3	100-52-7	
Acetophenone	Not detected	330	86	ug/kg	3	98-86-2	
Caprolactam	Not detected	330	55	ug/kg	3	105-60-2	
Carbazole	400	330	98	ug/kg	3	86-74-8	
1,1'-Biphenyl	Not detected	330	100	ug/kg	3	92-52-4	
Atrazine	Not detected	330	100	ug/kg	3	1912-24-9	

Organics - Volatiles

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/16/19 03:43, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	200		ug/kg	80.6	76-13-1	
Acetone	Not detected	1,200		ug/kg	80.6	67-64-1	
Carbon disulfide	Not detected	400		ug/kg	80.6	75-15-0	
Methyl Acetate	Not detected	4,000		ug/kg	80.6	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	400		ug/kg	80.6	1634-04-4	
2-Butanone (MEK)	Not detected	1,200		ug/kg	80.6	78-93-3	
Dichlorodifluoromethane	Not detected	80		ug/kg	80.6	75-71-8	
Chloromethane	Not detected	400		ug/kg	80.6	74-87-3	
Vinyl chloride	Not detected	200		ug/kg	80.6	75-01-4	
Bromomethane	Not detected	400		ug/kg	80.6	74-83-9	
Chloroethane	Not detected	400		ug/kg	80.6	75-00-3	
Trichlorofluoromethane	Not detected	200		ug/kg	80.6	75-69-4	
1,1-Dichloroethene	Not detected	80		ug/kg	80.6	75-35-4	
Methylene chloride	Not detected	400		ug/kg	80.6	75-09-2	
trans-1,2-Dichloroethene	Not detected	80		ug/kg	80.6	156-60-5	
1,1-Dichloroethane	Not detected	80		ug/kg	80.6	75-34-3	

Lab Sample ID: S99915.14 (continued)
Sample Tag: Dup-02(03142019)

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/16/19 03:43, Analyst: JML (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	80		ug/kg	80.6	156-59-2	
Chloroform	Not detected	80		ug/kg	80.6	67-66-3	
1,1,1-Trichloroethane	Not detected	80		ug/kg	80.6	71-55-6	
Cyclohexane	Not detected	80		ug/kg	80.6	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	80.6	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	80.6	591-78-6	
Carbon tetrachloride	Not detected	80		ug/kg	80.6	56-23-5	
Benzene	Not detected	80		ug/kg	80.6	71-43-2	
1,2-Dichloroethane	Not detected	80		ug/kg	80.6	107-06-2	
Trichloroethene	Not detected	80		ug/kg	80.6	79-01-6	
1,2-Dichloropropane	Not detected	80		ug/kg	80.6	78-87-5	
Bromodichloromethane	Not detected	80		ug/kg	80.6	75-27-4	
Methyl cyclohexane	100	80		ug/kg	80.6	108-87-2	
cis-1,3-Dichloropropene	Not detected	80		ug/kg	80.6	10061-01-5	
Toluene	Not detected	80		ug/kg	80.6	108-88-3	
trans-1,3-Dichloropropene	Not detected	80		ug/kg	80.6	10061-02-6	
1,1,2-Trichloroethane	Not detected	80		ug/kg	80.6	79-00-5	
Tetrachloroethene	Not detected	80		ug/kg	80.6	127-18-4	
Dibromochloromethane	Not detected	80		ug/kg	80.6	124-48-1	
1,2-Dibromoethane	Not detected	80		ug/kg	80.6	106-93-4	M
Chlorobenzene	Not detected	80		ug/kg	80.6	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	80		ug/kg	80.6	79-34-5	
Ethylbenzene	Not detected	80		ug/kg	80.6	100-41-4	
p,m-Xylene	Not detected	200		ug/kg	80.6		
o-Xylene	Not detected	80		ug/kg	80.6	95-47-6	
Styrene	Not detected	80		ug/kg	80.6	100-42-5	
Isopropylbenzene	Not detected	80		ug/kg	80.6	98-82-8	
Bromoform	Not detected	80		ug/kg	80.6	75-25-2	
1,3-Dichlorobenzene	Not detected	80		ug/kg	80.6	541-73-1	
1,4-Dichlorobenzene	Not detected	80		ug/kg	80.6	106-46-7	
1,2-Dichlorobenzene	Not detected	80		ug/kg	80.6	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	80		ug/kg	80.6	96-12-8	
1,2,4-Trichlorobenzene	Not detected	200		ug/kg	80.6	120-82-1	
n-Propylbenzene	Not detected	80		ug/kg	80.6	103-65-1	
Naphthalene	Not detected	80		ug/kg	80.6	91-20-3	

M-Result reported to MDL not RDL

Lab Sample ID: S99915.15
Sample Tag: Trip Blank
Collected Date/Time: 03/14/2019 00:01
Matrix: Methanol
COC Reference: 109087

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.4	IR

Organics - Volatiles

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/15/19 23:21, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	100		ug/kg	50	76-13-1	
Acetone	Not detected	750		ug/kg	50	67-64-1	
Carbon disulfide	Not detected	300		ug/kg	50	75-15-0	
Methyl Acetate	Not detected	3,000		ug/kg	50	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	50	1634-04-4	
2-Butanone (MEK)	Not detected	750		ug/kg	50	78-93-3	
Dichlorodifluoromethane	Not detected	50		ug/kg	50	75-71-8	
Chloromethane	Not detected	300		ug/kg	50	74-87-3	
Vinyl chloride	Not detected	100		ug/kg	50	75-01-4	
Bromomethane	Not detected	300		ug/kg	50	74-83-9	
Chloroethane	Not detected	300		ug/kg	50	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	50	75-69-4	
1,1-Dichloroethene	Not detected	50		ug/kg	50	75-35-4	
Methylene chloride	Not detected	300		ug/kg	50	75-09-2	
trans-1,2-Dichloroethene	Not detected	50		ug/kg	50	156-60-5	
1,1-Dichloroethane	Not detected	50		ug/kg	50	75-34-3	
cis-1,2-Dichloroethene	Not detected	50		ug/kg	50	156-59-2	
Chloroform	Not detected	50		ug/kg	50	67-66-3	
1,1,1-Trichloroethane	Not detected	50		ug/kg	50	71-55-6	
Cyclohexane	Not detected	50		ug/kg	50	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	50	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	50	591-78-6	
Carbon tetrachloride	Not detected	50		ug/kg	50	56-23-5	
Benzene	Not detected	50		ug/kg	50	71-43-2	
1,2-Dichloroethane	Not detected	50		ug/kg	50	107-06-2	
Trichloroethene	Not detected	50		ug/kg	50	79-01-6	
1,2-Dichloropropane	Not detected	50		ug/kg	50	78-87-5	
Bromodichloromethane	Not detected	50		ug/kg	50	75-27-4	
Methyl cyclohexane	Not detected	50		ug/kg	50	108-87-2	
cis-1,3-Dichloropropene	Not detected	50		ug/kg	50	10061-01-5	
Toluene	Not detected	50		ug/kg	50	108-88-3	
trans-1,3-Dichloropropene	Not detected	50		ug/kg	50	10061-02-6	
1,1,2-Trichloroethane	Not detected	50		ug/kg	50	79-00-5	
Tetrachloroethene	Not detected	50		ug/kg	50	127-18-4	
Dibromochloromethane	Not detected	50		ug/kg	50	124-48-1	
1,2-Dibromoethane	Not detected	50		ug/kg	50	106-93-4	M
Chlorobenzene	Not detected	50		ug/kg	50	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	50		ug/kg	50	79-34-5	
Ethylbenzene	Not detected	50		ug/kg	50	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	50		

M-Result reported to MDL not RDL

Lab Sample ID: S99915.15 (continued)

Sample Tag: Trip Blank

TCL Volatile Organics 5035/8260 PAL, Method: SW5035A/8260C, Run Date: 03/15/19 23:21, Analyst: JML (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
o-Xylene	Not detected	50		ug/kg	50	95-47-6	
Styrene	Not detected	50		ug/kg	50	100-42-5	
Isopropylbenzene	Not detected	50		ug/kg	50	98-82-8	
Bromoform	Not detected	50		ug/kg	50	75-25-2	
1,3-Dichlorobenzene	Not detected	50		ug/kg	50	541-73-1	
1,4-Dichlorobenzene	Not detected	50		ug/kg	50	106-46-7	
1,2-Dichlorobenzene	Not detected	50		ug/kg	50	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	50		ug/kg	50	96-12-8	
1,2,4-Trichlorobenzene	Not detected	100		ug/kg	50	120-82-1	
n-Propylbenzene	Not detected	50		ug/kg	50	103-65-1	
Naphthalene	Not detected	50		ug/kg	50	91-20-3	

Lab Sample ID: S99915.16
Sample Tag: Trip Blank
Collected Date/Time: 03/14/2019 00:01
Matrix: Water
COC Reference: 109087

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	5.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	03/19/19 09:00	JML	

Organics - Volatiles

Method: SW8260B - SIM, Run Date: 03/21/19 12:31, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dioxane*	Not detected	1		ug/L	1	123-91-1	

TCL Volatile Organics 8260 PAL, Method: SW5030C/8260C, Run Date: 03/15/19 13:55, Analyst: JML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	30		ug/L	1	76-13-1	
Acetone	Not detected	20		ug/L	1	67-64-1	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Methyl Acetate	Not detected	10		ug/L	1	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
2-Butanone (MEK)	Not detected	20		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	1		ug/L	1	75-71-8	
Chloromethane	Not detected	1		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	2		ug/L	1	74-83-9	
Chloroethane	Not detected	1		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Chloroform	2	1		ug/L	1	67-66-3	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
Cyclohexane	Not detected	1		ug/L	1	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	10		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Methyl cyclohexane	Not detected	20		ug/L	1	108-87-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	

Lab Sample ID: S99915.16 (continued)
Sample Tag: Trip Blank

TCL Volatile Organics 8260 PAL, Method: SW5030C/8260C, Run Date: 03/15/19 13:55, Analyst: JML (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Dibromochloromethane	Not detected	1		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	1		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	1		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	2		ug/L	1	120-82-1	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Naphthalene	Not detected	1		ug/L	1	91-20-3	

Merit Laboratories Login Checklist

Lab Set ID: S99915
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: B0064410.2019.03100 / Buick City RACER
Submitted: 03/15/2019 08:15 Login User: MMC

Attention: Kristen VanDenBerge
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: n/a FAX: 248-994-2241
Email: kristen.Vandenberge@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 5.4
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[X] Yes	[ ] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[X] Yes	[ ] No	[ ] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[X] Yes	[ ] No	[ ] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories Bottle Preservation Check

Lab Set ID: S99915 Initials: MMC

Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)

Project: B0064410.2019.03100 / Buick City RACER

Submitted: 03/15/2019 08:15 Login User:

Attention: Kristen VanDenBerge
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: n/a FAX: 248-994-2241
Email: kristen.Vandenberge@arcadis.com

Lab ID	125 ml Plastic HNO_3	250 ml Plastic HNO_3	1 L Plastic HNO_3	250 ml Plastic H_2SO_4	125 ml Amber H_2SO_4	32 oz Glass HCl	125 ml Plastic NaOH	125 ml Amber $PbCO_3$ NaOH	pH					Notes
									<2	>12	other	ml add	new pH	
S99915.04	X								X					
S99915.04							X			X				
S99915.07	X								X					
S99915.07							X			X				
S99915.08	X								X					
S99915.08							X			X				

Prepared by Merit Laboratories

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

109067

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Kristen Van Den Berge
COMPANY: Arcadis of Michigan, LLC
ADDRESS: 28550 Cabot Drive, Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 231-534-5092 FAX NO.: 248-994-2241 P.O. NO.: B0064410.2019.03100
E-MAIL ADDRESS: Kristen.VanDenBerge@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: X SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: B0064410.2019.03100 / Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Austin Westhuis / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS X STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD X LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
X Other MI

Special Instructions
*Including Mercury and Cyanide. Metals method 6020 and cyanide method 3354

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PAL Metals*	PAL VOCs (8260B) PCBs (608/8082 + cleanups	PAL SVOCs (8270 1,4-Dioxane (8260B)	PAL Mn/Fe/S Total and Dissolved (6020) Cyanide (335.4 Total and Dissolved
99915.01	3/14/19	1130	SB-81-21(1-3)_03142019	S	2	1					1		X	X		
.02	3/14/19	1140	SB-81-21(9.5-11.5)_03142019	S	2	1					1		X	X		
.03	3/14/19	1450	EB-01(03142019)	GW	1	1								X		
.04	3/14/19	1340	SB-10-33(03142019)	GW	8	3	3	1		1			X	X	X	X
.05	3/14/19	1620	SB-81-22(DUPLICATE)(1-3)_03142019	S	2	1					1		X	X		
.06	3/14/19	1745	SB-81-22(11-13)_03142019	S	2	1					1		X	X		
.07	3/14/19	1540	SB-10-32(03142019)	GW	8	3	3	1			1		X	X	X	X
.08	3/14/19	1700	SB-10-30(03142019)	GW	8	3	3	1			1		X	X	X	X
09	3/14/19	1140	SB-10-30(1-3)_03142019	S	2	1					1		X	X		
.10	3/14/19	1220	SB-10-30(8-10)_03142019	S	2	1					1		X	X		
.11	3/14/19	1035	SB-10-32(1-3)_03142019	S	2	1					1		X	X		
.12	3/14/19	1040	SB-10-32(7-9)_03142019	S	2	1					1		X	X		

RELINQUISHED BY: SIGNATURE/ORGANIZATION	[signature] / Arcadis ☐ Sampler	DATE 3/14/19	TIME 1730
RECEIVED BY: SIGNATURE/ORGANIZATION	Merit locker	DATE 3/14/19	TIME 2330
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Merit Drop Box	DATE 3/15/19	TIME 0815
RECEIVED BY: SIGNATURE/ORGANIZATION	M Malcolm	DATE 3/15/19	TIME 0815

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 5.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 2 OF 2

109087

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Kristen VanDenBerge
COMPANY: Arcadis of Michigan, LLC
ADDRESS: 28550 Cabot Drive, Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 231-534-5092 FAX NO.: 248-994-2241 P.O. NO.: B00644410.2019.03100
E-MAIL ADDRESS: Kristen.VanDenBerge@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: X SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: B00644410.2019.03100/Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS X STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD X LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
X Other MI

Special Instructions
*Including Mercury and cyanide. Metals method 6020 and cyanide method 335.4

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PAL Metals*	PAL VOCs (8260B) PCBs (8082 + cleanups)	PAL SVOCs (8270)	1,4-Dioxane (8260B)	PAL Metals Total and Dissolved (6020)	Total and Dissolved Cyanide (335.4)
99915.13	3/14/19	1040	SB-10-32(10-12)_03142019	S	2	1					1		X	X	X			
.14	3/14/19	—	Dup-02(03142019)	S	2	1					1		X	X	X			
.15	3/14/19	—	Trip Blank	S	1						1			X				
.16	3/14/19	—	Trip Blank	GW	1		1							X				

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Brett Parker / Arcadis ☐ Sampler	DATE 3/14/19	TIME 2130
RECEIVED BY: SIGNATURE/ORGANIZATION	Merit Locker	DATE 3/14/19	TIME 2130
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Merit Drop Box	DATE 3/15/19	TIME 0915
RECEIVED BY: SIGNATURE/ORGANIZATION	M Delate	DATE 3/15/19	TIME 0915

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 5.4

Please also email: Mitch.Hutson@arcadis.com, Brett.Parker@arcadis.com, Tom.Hall@arcadis.com, Kristen.VanDenBerge@arcadis.com

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Supplemental Report

Report ID: S92847.01(02)
Generated on 09/11/2018
Replaces report S92847.01(01) generated on 08/21/2018

Report to

Attention: Micki Maki
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1909 FAX: 248-994-2241
Email: micki.maki@arcadis.com

Addtional Contacts: Megan Humphrey

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S92847.01-S92847.23
Project: RACER Buick City
Collected Date: 08/08/2018 - 08/09/2018
Submitted Date/Time: 08/10/2018 15:20
Sampled by: Kaitlyn Voet
P.O. #: B0064410.2018.01905

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

PCBs added to samples .05-.10 and .17-.22 per client request

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3510C	SW 846 Method 3510C Revision 3 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (23 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S92847.01	SB-DH-RW-3-51(7-9)08082018	Soil	08/08/18 13:55
S92847.02	SB-DH-RW-3-51(9-11)08082018	Soil	08/08/18 14:00
S92847.03	SB-DH-RW-3-51(11-13)08082018	Soil	08/08/18 14:05
S92847.04	SB-DH-RW-3-51(13-15)08082018	Soil	08/08/18 14:10
S92847.05	SB-DH-RW-3-52(7-9)08082018	Soil	08/08/18 15:45
S92847.06	SB-DH-RW-3-52(9-11)08082018	Soil	08/08/18 15:50
S92847.07	SB-DH-RW-3-52(11-13)08082018	Soil	08/08/18 16:45
S92847.08	SB-DH-RW-3-52(13-15)08082018	Soil	08/08/18 16:50
S92847.09	SB-DH-RW-3-52(15-17)08082018	Soil	08/08/18 15:55
S92847.10	SB-DH-RW-3-52(17-19)08082018	Soil	08/08/18 16:00
S92847.11	DUP-208082018	Soil	08/08/18 00:01
S92847.12	SB-DH-RW-3-54(5-7)08092018	Soil	08/09/18 10:30
S92847.13	SB-DH-RW-3-54(7-9)08092018	Soil	08/09/18 10:35
S92847.14	SB-DH-RW-3-54(9-11)08092018	Soil	08/09/18 10:40
S92847.15	SB-DH-RW-3-54(11-13)08092018	Soil	08/09/18 10:45
S92847.16	SB-DH-RW-3-54(13-15)08092018	Soil	08/09/18 10:50
S92847.17	SB-DH-RW-3-53(9-11)08092018	Soil	08/09/18 12:10
S92847.18	SB-DH-RW-3-53(11-13)08092018	Soil	08/09/18 12:15
S92847.19	SB-DH-RW-3-53(11-13)08092018 MS	Soil	08/09/18 12:15
S92847.20	SB-DH-RW-3-53(11-13)08092018 MSD	Soil	08/09/18 12:15
S92847.21	SB-DH-RW-3-53(13-15)08092018	Soil	08/09/18 12:20
S92847.22	SB-DH-RW-3-53(15-17)08092018	Soil	08/09/18 12:25
S92847.23	EB-308092018	Water	08/09/18 14:15

Lab Sample ID: S92847.01
Sample Tag: SB-DH-RW-3-51(7-9)08082018
Collected Date/Time: 08/08/2018 13:55
Matrix: Soil
COC Reference: 111700

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 14:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	50	12674-11-2	
PCB-1242	1,200	330	1.4	ug/kg	50	53469-21-9	
PCB-1221	Not detected	330	0.92	ug/kg	50	11104-28-2	
PCB-1232	Not detected	330	1.4	ug/kg	50	11141-16-5	
PCB-1248	Not detected	330	2.3	ug/kg	50	12672-29-6	
PCB-1254	Not detected	330	0.90	ug/kg	50	11097-69-1	
PCB-1260	Not detected	330	1.0	ug/kg	50	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 14:49, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	50	12674-11-2	
PCB-1242	1,200	330	1.3	ug/kg	50	53469-21-9	
PCB-1221	Not detected	330	1.4	ug/kg	50	11104-28-2	
PCB-1232	Not detected	330	2.0	ug/kg	50	11141-16-5	
PCB-1248	Not detected	330	1.9	ug/kg	50	12672-29-6	
PCB-1254	Not detected	330	1.0	ug/kg	50	11097-69-1	
PCB-1260	Not detected	330	1.1	ug/kg	50	11096-82-5	

Lab Sample ID: S92847.02
Sample Tag: SB-DH-RW-3-51(9-11)08082018
Collected Date/Time: 08/08/2018 14:00
Matrix: Soil
COC Reference: 111700

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 15:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	30	12674-11-2	
PCB-1242	1,000	330	1.4	ug/kg	30	53469-21-9	
PCB-1221	Not detected	330	0.92	ug/kg	30	11104-28-2	
PCB-1232	Not detected	330	1.4	ug/kg	30	11141-16-5	
PCB-1248	Not detected	330	2.3	ug/kg	30	12672-29-6	
PCB-1254	Not detected	330	0.90	ug/kg	30	11097-69-1	
PCB-1260	Not detected	330	1.0	ug/kg	30	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 15:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	30	12674-11-2	
PCB-1242	900	330	1.3	ug/kg	30	53469-21-9	
PCB-1221	Not detected	330	1.4	ug/kg	30	11104-28-2	
PCB-1232	Not detected	330	2.0	ug/kg	30	11141-16-5	
PCB-1248	Not detected	330	1.9	ug/kg	30	12672-29-6	
PCB-1254	Not detected	330	1.0	ug/kg	30	11097-69-1	
PCB-1260	Not detected	330	1.1	ug/kg	30	11096-82-5	

Lab Sample ID: S92847.03
Sample Tag: SB-DH-RW-3-51(11-13)08082018
Collected Date/Time: 08/08/2018 14:05
Matrix: Soil
COC Reference: 111700

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 15:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	30	12674-11-2	
PCB-1242	1,000	330	1.4	ug/kg	30	53469-21-9	
PCB-1221	Not detected	330	0.92	ug/kg	30	11104-28-2	
PCB-1232	Not detected	330	1.4	ug/kg	30	11141-16-5	
PCB-1248	Not detected	330	2.3	ug/kg	30	12672-29-6	
PCB-1254	Not detected	330	0.90	ug/kg	30	11097-69-1	
PCB-1260	Not detected	330	1.0	ug/kg	30	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 15:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	30	12674-11-2	
PCB-1242	800	330	1.3	ug/kg	30	53469-21-9	
PCB-1221	Not detected	330	1.4	ug/kg	30	11104-28-2	
PCB-1232	Not detected	330	2.0	ug/kg	30	11141-16-5	
PCB-1248	Not detected	330	1.9	ug/kg	30	12672-29-6	
PCB-1254	Not detected	330	1.0	ug/kg	30	11097-69-1	
PCB-1260	Not detected	330	1.1	ug/kg	30	11096-82-5	

Lab Sample ID: S92847.04
Sample Tag: SB-DH-RW-3-51(13-15)08082018
Collected Date/Time: 08/08/2018 14:10
Matrix: Soil
COC Reference: 111700

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 14:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	50	12674-11-2	
PCB-1242	1,700	330	1.4	ug/kg	50	53469-21-9	
PCB-1221	Not detected	330	0.92	ug/kg	50	11104-28-2	
PCB-1232	Not detected	330	1.4	ug/kg	50	11141-16-5	
PCB-1248	Not detected	330	2.3	ug/kg	50	12672-29-6	
PCB-1254	Not detected	330	0.90	ug/kg	50	11097-69-1	
PCB-1260	Not detected	330	1.0	ug/kg	50	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 14:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	50	12674-11-2	
PCB-1242	1,600	330	1.3	ug/kg	50	53469-21-9	
PCB-1221	Not detected	330	1.4	ug/kg	50	11104-28-2	
PCB-1232	Not detected	330	2.0	ug/kg	50	11141-16-5	
PCB-1248	Not detected	330	1.9	ug/kg	50	12672-29-6	
PCB-1254	Not detected	330	1.0	ug/kg	50	11097-69-1	
PCB-1260	Not detected	330	1.1	ug/kg	50	11096-82-5	

Lab Sample ID: S92847.05
Sample Tag: SB-DH-RW-3-52(7-9)08082018
Collected Date/Time: 08/08/2018 15:45
Matrix: Soil
COC Reference: 111700

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	09/07/18 12:20	PLB	F

Inorganics

Method: SM2540B, Run Date: 09/06/18 09:35, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1	1	%	1		F

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 09/07/18 15:13, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.4	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	0.92	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	1.4	ug/kg	1	11141-16-5	G
PCB-1248	Not detected	330	2.3	ug/kg	1	12672-29-6	G
PCB-1254	1.7	330	0.90	ug/kg	1	11097-69-1	JG
PCB-1260	Not detected	330	1.0	ug/kg	1	11096-82-5	G

TCL PCB List (Column 2), Method: SW8082A, Run Date: 09/07/18 15:13, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.3	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	1.4	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	2.0	ug/kg	1	11141-16-5	G
PCB-1248	Not detected	330	1.9	ug/kg	1	12672-29-6	G
PCB-1254	Not detected	330	1.0	ug/kg	1	11097-69-1	G
PCB-1260	Not detected	330	1.1	ug/kg	1	11096-82-5	G

F-Analysis run outside of holding time
G-Estimated result due to extraction run outside of holding time
J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S92847.06

Sample Tag: SB-DH-RW-3-52(9-11)08082018

Collected Date/Time: 08/08/2018 15:50

Matrix: Soil

COC Reference: 111700

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	09/07/18 12:20	PLB	F

Inorganics

Method: SM2540B, Run Date: 09/06/18 09:35, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	92	1	1	%	1		F

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 09/07/18 13:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.4	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	0.92	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	1.4	ug/kg	1	11141-16-5	G
PCB-1248	Not detected	330	2.3	ug/kg	1	12672-29-6	G
PCB-1254	Not detected	330	0.90	ug/kg	1	11097-69-1	G
PCB-1260	Not detected	330	1.0	ug/kg	1	11096-82-5	G

TCL PCB List (Column 2), Method: SW8082A, Run Date: 09/07/18 13:50, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.3	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	1.4	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	2.0	ug/kg	1	11141-16-5	G
PCB-1248	Not detected	330	1.9	ug/kg	1	12672-29-6	G
PCB-1254	Not detected	330	1.0	ug/kg	1	11097-69-1	G
PCB-1260	Not detected	330	1.1	ug/kg	1	11096-82-5	G

F-Analysis run outside of holding time

G-Estimated result due to extraction run outside of holding time

Lab Sample ID: S92847.07

Sample Tag: SB-DH-RW-3-52(11-13)08082018

Collected Date/Time: 08/08/2018 16:45

Matrix: Soil

COC Reference: 111700

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	09/07/18 12:20	PLB	F

Inorganics

Method: SM2540B, Run Date: 09/06/18 09:35, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	92	1	1	%	1		F

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 09/07/18 14:01, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.4	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	0.92	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	1.4	ug/kg	1	11141-16-5	G
PCB-1248	Not detected	330	2.3	ug/kg	1	12672-29-6	G
PCB-1254	Not detected	330	0.90	ug/kg	1	11097-69-1	G
PCB-1260	Not detected	330	1.0	ug/kg	1	11096-82-5	G

TCL PCB List (Column 2), Method: SW8082A, Run Date: 09/07/18 14:01, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.3	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	1.4	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	2.0	ug/kg	1	11141-16-5	G
PCB-1248	Not detected	330	1.9	ug/kg	1	12672-29-6	G
PCB-1254	Not detected	330	1.0	ug/kg	1	11097-69-1	G
PCB-1260	Not detected	330	1.1	ug/kg	1	11096-82-5	G

F-Analysis run outside of holding time

G-Estimated result due to extraction run outside of holding time

Lab Sample ID: S92847.08

Sample Tag: SB-DH-RW-3-52(13-15)08082018

Collected Date/Time: 08/08/2018 16:50

Matrix: Soil

COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	09/07/18 12:20	PLB	F

Inorganics

Method: SM2540B, Run Date: 09/06/18 09:35, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		F

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 09/07/18 14:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.4	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	0.92	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	1.4	ug/kg	1	11141-16-5	G
PCB-1248	Not detected	330	2.3	ug/kg	1	12672-29-6	G
PCB-1254	Not detected	330	0.90	ug/kg	1	11097-69-1	G
PCB-1260	Not detected	330	1.0	ug/kg	1	11096-82-5	G

TCL PCB List (Column 2), Method: SW8082A, Run Date: 09/07/18 14:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.3	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	1.4	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	2.0	ug/kg	1	11141-16-5	G
PCB-1248	Not detected	330	1.9	ug/kg	1	12672-29-6	G
PCB-1254	Not detected	330	1.0	ug/kg	1	11097-69-1	G
PCB-1260	Not detected	330	1.1	ug/kg	1	11096-82-5	G

F-Analysis run outside of holding time

G-Estimated result due to extraction run outside of holding time

Lab Sample ID: S92847.09
Sample Tag: SB-DH-RW-3-52(15-17)08082018
Collected Date/Time: 08/08/2018 15:55
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	09/07/18 12:20	PLB	F

Inorganics

Method: SM2540B, Run Date: 09/06/18 09:35, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1	1	%	1		F

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 09/07/18 14:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.4	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	0.92	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	1.4	ug/kg	1	11141-16-5	G
PCB-1248	Not detected	330	2.3	ug/kg	1	12672-29-6	G
PCB-1254	Not detected	330	0.90	ug/kg	1	11097-69-1	G
PCB-1260	Not detected	330	1.0	ug/kg	1	11096-82-5	G

TCL PCB List (Column 2), Method: SW8082A, Run Date: 09/07/18 14:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.3	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	1.4	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	2.0	ug/kg	1	11141-16-5	G
PCB-1248	Not detected	330	1.9	ug/kg	1	12672-29-6	G
PCB-1254	Not detected	330	1.0	ug/kg	1	11097-69-1	G
PCB-1260	Not detected	330	1.1	ug/kg	1	11096-82-5	G

F-Analysis run outside of holding time
G-Estimated result due to extraction run outside of holding time

Lab Sample ID: S92847.10
Sample Tag: SB-DH-RW-3-52(17-19)08082018
Collected Date/Time: 08/08/2018 16:00
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	09/07/18 12:20	PLB	F

Inorganics

Method: SM2540B, Run Date: 09/06/18 09:35, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		F

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 09/07/18 14:34, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.4	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	0.92	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	1.4	ug/kg	1	11141-16-5	G
PCB-1248	Not detected	330	2.3	ug/kg	1	12672-29-6	G
PCB-1254	Not detected	330	0.90	ug/kg	1	11097-69-1	G
PCB-1260	Not detected	330	1.0	ug/kg	1	11096-82-5	G

TCL PCB List (Column 2), Method: SW8082A, Run Date: 09/07/18 14:34, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.3	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	1.4	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	2.0	ug/kg	1	11141-16-5	G
PCB-1248	Not detected	330	1.9	ug/kg	1	12672-29-6	G
PCB-1254	Not detected	330	1.0	ug/kg	1	11097-69-1	G
PCB-1260	Not detected	330	1.1	ug/kg	1	11096-82-5	G

F-Analysis run outside of holding time
G-Estimated result due to extraction run outside of holding time

Lab Sample ID: S92847.11
Sample Tag: DUP-208082018
Collected Date/Time: 08/08/2018 00:01
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 12:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	1	12674-11-2	
PCB-1242	Not detected	330	1.4	ug/kg	1	53469-21-9	
PCB-1221	Not detected	330	0.92	ug/kg	1	11104-28-2	
PCB-1232	Not detected	330	1.4	ug/kg	1	11141-16-5	
PCB-1248	Not detected	330	2.3	ug/kg	1	12672-29-6	
PCB-1254	Not detected	330	0.90	ug/kg	1	11097-69-1	
PCB-1260	Not detected	330	1.0	ug/kg	1	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 12:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	1	12674-11-2	
PCB-1242	Not detected	330	1.3	ug/kg	1	53469-21-9	
PCB-1221	Not detected	330	1.4	ug/kg	1	11104-28-2	
PCB-1232	Not detected	330	2.0	ug/kg	1	11141-16-5	
PCB-1248	Not detected	330	1.9	ug/kg	1	12672-29-6	
PCB-1254	Not detected	330	1.0	ug/kg	1	11097-69-1	
PCB-1260	Not detected	330	1.1	ug/kg	1	11096-82-5	

Lab Sample ID: S92847.12
Sample Tag: SB-DH-RW-3-54(5-7)08092018
Collected Date/Time: 08/09/2018 10:30
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 15:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	10	12674-11-2	
PCB-1242	500	330	1.4	ug/kg	10	53469-21-9	
PCB-1221	Not detected	330	0.92	ug/kg	10	11104-28-2	
PCB-1232	Not detected	330	1.4	ug/kg	10	11141-16-5	
PCB-1248	Not detected	330	2.3	ug/kg	10	12672-29-6	
PCB-1254	Not detected	330	0.90	ug/kg	10	11097-69-1	
PCB-1260	Not detected	330	1.0	ug/kg	10	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 15:56, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	10	12674-11-2	
PCB-1242	400	330	1.3	ug/kg	10	53469-21-9	
PCB-1221	Not detected	330	1.4	ug/kg	10	11104-28-2	
PCB-1232	Not detected	330	2.0	ug/kg	10	11141-16-5	
PCB-1248	Not detected	330	1.9	ug/kg	10	12672-29-6	
PCB-1254	Not detected	330	1.0	ug/kg	10	11097-69-1	
PCB-1260	Not detected	330	1.1	ug/kg	10	11096-82-5	

Lab Sample ID: S92847.13
Sample Tag: SB-DH-RW-3-54(7-9)08092018
Collected Date/Time: 08/09/2018 10:35
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 16:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	50	12674-11-2	
PCB-1242	2,300	330	1.4	ug/kg	50	53469-21-9	
PCB-1221	Not detected	330	0.92	ug/kg	50	11104-28-2	
PCB-1232	Not detected	330	1.4	ug/kg	50	11141-16-5	
PCB-1248	Not detected	330	2.3	ug/kg	50	12672-29-6	
PCB-1254	Not detected	330	0.90	ug/kg	50	11097-69-1	
PCB-1260	Not detected	330	1.0	ug/kg	50	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 16:11, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	50	12674-11-2	
PCB-1242	1,900	330	1.3	ug/kg	50	53469-21-9	
PCB-1221	Not detected	330	1.4	ug/kg	50	11104-28-2	
PCB-1232	Not detected	330	2.0	ug/kg	50	11141-16-5	
PCB-1248	Not detected	330	1.9	ug/kg	50	12672-29-6	
PCB-1254	Not detected	330	1.0	ug/kg	50	11097-69-1	
PCB-1260	Not detected	330	1.1	ug/kg	50	11096-82-5	

Lab Sample ID: S92847.14
Sample Tag: SB-DH-RW-3-54(9-11)08092018
Collected Date/Time: 08/09/2018 10:40
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 13:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	10	12674-11-2	
PCB-1242	500	330	1.4	ug/kg	10	53469-21-9	
PCB-1221	Not detected	330	0.92	ug/kg	10	11104-28-2	
PCB-1232	Not detected	330	1.4	ug/kg	10	11141-16-5	
PCB-1248	Not detected	330	2.3	ug/kg	10	12672-29-6	
PCB-1254	Not detected	330	0.90	ug/kg	10	11097-69-1	
PCB-1260	Not detected	330	1.0	ug/kg	10	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 13:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	10	12674-11-2	
PCB-1242	500	330	1.3	ug/kg	10	53469-21-9	
PCB-1221	Not detected	330	1.4	ug/kg	10	11104-28-2	
PCB-1232	Not detected	330	2.0	ug/kg	10	11141-16-5	
PCB-1248	Not detected	330	1.9	ug/kg	10	12672-29-6	
PCB-1254	Not detected	330	1.0	ug/kg	10	11097-69-1	
PCB-1260	Not detected	330	1.1	ug/kg	10	11096-82-5	

Lab Sample ID: S92847.15
Sample Tag: SB-DH-RW-3-54(11-13)08092018
Collected Date/Time: 08/09/2018 10:45
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 16:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000	1.2	ug/kg	300	12674-11-2	Y
PCB-1242	11,000	2,000	1.4	ug/kg	300	53469-21-9	Y
PCB-1221	Not detected	2,000	0.92	ug/kg	300	11104-28-2	Y
PCB-1232	Not detected	2,000	1.4	ug/kg	300	11141-16-5	Y
PCB-1248	Not detected	2,000	2.3	ug/kg	300	12672-29-6	Y
PCB-1254	Not detected	2,000	0.90	ug/kg	300	11097-69-1	Y
PCB-1260	Not detected	2,000	1.0	ug/kg	300	11096-82-5	Y

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 16:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000	1.4	ug/kg	300	12674-11-2	Y
PCB-1242	9,000	2,000	1.3	ug/kg	300	53469-21-9	Y
PCB-1221	Not detected	2,000	1.4	ug/kg	300	11104-28-2	Y
PCB-1232	Not detected	2,000	2.0	ug/kg	300	11141-16-5	Y
PCB-1248	Not detected	2,000	1.9	ug/kg	300	12672-29-6	Y
PCB-1254	Not detected	2,000	1.0	ug/kg	300	11097-69-1	Y
PCB-1260	Not detected	2,000	1.1	ug/kg	300	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S92847.16
Sample Tag: SB-DH-RW-3-54(13-15)08092018
Collected Date/Time: 08/09/2018 10:50
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	08/16/18 12:00	PLB	

Inorganics

Method: SM2540B, Run Date: 08/12/18 18:45, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	76	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/20/18 12:42, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	1	12674-11-2	
PCB-1242	Not detected	330	1.4	ug/kg	1	53469-21-9	
PCB-1221	Not detected	330	0.92	ug/kg	1	11104-28-2	
PCB-1232	Not detected	330	1.4	ug/kg	1	11141-16-5	
PCB-1248	Not detected	330	2.3	ug/kg	1	12672-29-6	
PCB-1254	Not detected	330	0.90	ug/kg	1	11097-69-1	
PCB-1260	Not detected	330	1.0	ug/kg	1	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/20/18 12:42, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	1	12674-11-2	
PCB-1242	Not detected	330	1.3	ug/kg	1	53469-21-9	
PCB-1221	Not detected	330	1.4	ug/kg	1	11104-28-2	
PCB-1232	Not detected	330	2.0	ug/kg	1	11141-16-5	
PCB-1248	Not detected	330	1.9	ug/kg	1	12672-29-6	
PCB-1254	Not detected	330	1.0	ug/kg	1	11097-69-1	
PCB-1260	Not detected	330	1.1	ug/kg	1	11096-82-5	

Lab Sample ID: S92847.17
Sample Tag: SB-DH-RW-3-53(9-11)08092018
Collected Date/Time: 08/09/2018 12:10
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	09/07/18 12:20	PLB	F

Inorganics

Method: SM2540B, Run Date: 09/06/18 09:35, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 09/07/18 15:24, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.4	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	0.92	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	1.4	ug/kg	1	11141-16-5	G
PCB-1248	6	330	2.3	ug/kg	1	12672-29-6	JG
PCB-1254	Not detected	330	0.90	ug/kg	1	11097-69-1	G
PCB-1260	Not detected	330	1.0	ug/kg	1	11096-82-5	G

TCL PCB List (Column 2), Method: SW8082A, Run Date: 09/07/18 15:24, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.3	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	1.4	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	2.0	ug/kg	1	11141-16-5	G
PCB-1248	6	330	1.9	ug/kg	1	12672-29-6	JG
PCB-1254	Not detected	330	1.0	ug/kg	1	11097-69-1	G
PCB-1260	Not detected	330	1.1	ug/kg	1	11096-82-5	G

F-Analysis run outside of holding time
G-Estimated result due to extraction run outside of holding time
J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S92847.18
Sample Tag: SB-DH-RW-3-53(11-13)08092018
Collected Date/Time: 08/09/2018 12:15
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
4	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	09/07/18 12:20	PLB	F

Inorganics

Method: SM2540B, Run Date: 09/06/18 09:35, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	98	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 09/07/18 17:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.4	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	0.92	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	1.4	ug/kg	1	11141-16-5	G
PCB-1248	5	330	2.3	ug/kg	1	12672-29-6	JG
PCB-1254	Not detected	330	0.90	ug/kg	1	11097-69-1	G
PCB-1260	5	330	1.0	ug/kg	1	11096-82-5	JG

TCL PCB List (Column 2), Method: SW8082A, Run Date: 09/07/18 17:12, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.3	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	1.4	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	2.0	ug/kg	1	11141-16-5	G
PCB-1248	3.7	330	1.9	ug/kg	1	12672-29-6	JG
PCB-1254	Not detected	330	1.0	ug/kg	1	11097-69-1	G
PCB-1260	3.6	330	1.1	ug/kg	1	11096-82-5	JG

F-Analysis run outside of holding time
G-Estimated result due to extraction run outside of holding time
J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S92847.19

Sample Tag: SB-DH-RW-3-53(11-13)08092018 MS

Collected Date/Time: 08/09/2018 12:15

Matrix: Soil

COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
4	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	09/07/18 12:20	PLB	F

Inorganics

Method: SM2540B, Run Date: 09/06/18 09:35, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	98	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 09/07/18 17:24, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	2.3	330	1.2	ug/kg	1	12674-11-2	JG
PCB-1242	Not detected	330	1.4	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	0.92	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	1.4	ug/kg	1	11141-16-5	G
PCB-1248	Not detected	330	2.3	ug/kg	1	12672-29-6	G
PCB-1254	Not detected	330	0.90	ug/kg	1	11097-69-1	G
PCB-1260	17	330	1.0	ug/kg	1	11096-82-5	JG

TCL PCB List (Column 2), Method: SW8082A, Run Date: 09/07/18 17:24, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	18	330	1.4	ug/kg	1	12674-11-2	JG
PCB-1242	Not detected	330	1.3	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	1.4	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	2.0	ug/kg	1	11141-16-5	G
PCB-1248	Not detected	330	1.9	ug/kg	1	12672-29-6	G
PCB-1254	Not detected	330	1.0	ug/kg	1	11097-69-1	G
PCB-1260	12	330	1.1	ug/kg	1	11096-82-5	JG

F-Analysis run outside of holding time

J-Estimated value less than reporting limit, but greater than MDL G-Estimated result due to extraction run outside of holding time

Lab Sample ID: S92847.20
Sample Tag: SB-DH-RW-3-53(11-13)08092018 MSD
Collected Date/Time: 08/09/2018 12:15
Matrix: Soil
COC Reference: 111701

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
4	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	09/07/18 12:20	PLB	F

Inorganics

Method: SM2540B, Run Date: 09/06/18 09:35, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	98	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 09/07/18 17:36, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	26	330	1.2	ug/kg	1	12674-11-2	JG
PCB-1242	Not detected	330	1.4	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	0.92	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	1.4	ug/kg	1	11141-16-5	G
PCB-1248	Not detected	330	2.3	ug/kg	1	12672-29-6	G
PCB-1254	Not detected	330	0.90	ug/kg	1	11097-69-1	G
PCB-1260	18	330	1.0	ug/kg	1	11096-82-5	JG

TCL PCB List (Column 2), Method: SW8082A, Run Date: 09/07/18 17:36, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	18	330	1.4	ug/kg	1	12674-11-2	JG
PCB-1242	Not detected	330	1.3	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	1.4	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	2.0	ug/kg	1	11141-16-5	G
PCB-1248	Not detected	330	1.9	ug/kg	1	12672-29-6	G
PCB-1254	Not detected	330	1.0	ug/kg	1	11097-69-1	G
PCB-1260	12	330	1.1	ug/kg	1	11096-82-5	JG

F-Analysis run outside of holding time
J-Estimated value less than reporting limit, but greater than MDL G-Estimated result due to extraction run outside of holding time

Lab Sample ID: S92847.21
Sample Tag: SB-DH-RW-3-53(13-15)08092018
Collected Date/Time: 08/09/2018 12:20
Matrix: Soil
COC Reference: 111702

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	09/07/18 12:20	PLB	F

Inorganics

Method: SM2540B, Run Date: 09/06/18 09:35, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 09/07/18 17:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.4	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	0.92	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	1.4	ug/kg	1	11141-16-5	G
PCB-1248	7	330	2.3	ug/kg	1	12672-29-6	JG
PCB-1254	Not detected	330	0.90	ug/kg	1	11097-69-1	G
PCB-1260	5	330	1.0	ug/kg	1	11096-82-5	JG

TCL PCB List (Column 2), Method: SW8082A, Run Date: 09/07/18 17:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.3	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	1.4	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	2.0	ug/kg	1	11141-16-5	G
PCB-1248	4	330	1.9	ug/kg	1	12672-29-6	JG
PCB-1254	Not detected	330	1.0	ug/kg	1	11097-69-1	G
PCB-1260	5	330	1.1	ug/kg	1	11096-82-5	JG

F-Analysis run outside of holding time
G-Estimated result due to extraction run outside of holding time
J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S92847.22

Sample Tag: SB-DH-RW-3-53(15-17)08092018

Collected Date/Time: 08/09/2018 12:25

Matrix: Soil

COC Reference: 111702

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	09/07/18 12:20	PLB	F

Inorganics

Method: SM2540B, Run Date: 09/06/18 09:35, Analyst: JBL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	77	1	1	%	1		

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 09/07/18 18:03, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.2	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.4	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	0.92	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	1.4	ug/kg	1	11141-16-5	G
PCB-1248	4	330	2.3	ug/kg	1	12672-29-6	JG
PCB-1254	Not detected	330	0.90	ug/kg	1	11097-69-1	G
PCB-1260	4	330	1.0	ug/kg	1	11096-82-5	JG

TCL PCB List (Column 2), Method: SW8082A, Run Date: 09/07/18 18:03, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330	1.4	ug/kg	1	12674-11-2	G
PCB-1242	Not detected	330	1.3	ug/kg	1	53469-21-9	G
PCB-1221	Not detected	330	1.4	ug/kg	1	11104-28-2	G
PCB-1232	Not detected	330	2.0	ug/kg	1	11141-16-5	G
PCB-1248	3	330	1.9	ug/kg	1	12672-29-6	JG
PCB-1254	Not detected	330	1.0	ug/kg	1	11097-69-1	G
PCB-1260	5	330	1.1	ug/kg	1	11096-82-5	JG

F-Analysis run outside of holding time

G-Estimated result due to extraction run outside of holding time

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S92847.23
Sample Tag: EB-308092018
Collected Date/Time: 08/09/2018 14:15
Matrix: Water
COC Reference: 111702

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB	Completed	SW3510C	08/15/18 18:00	PLB	

Organics - PCBs/Pesticides

TCL PCB List (Column 1), Method: SW8082A, Run Date: 08/16/18 17:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	0.1	0.013	ug/L	1	12674-11-2	
PCB-1242	Not detected	0.1	0.012	ug/L	1	53469-21-9	
PCB-1221	Not detected	0.1	0.024	ug/L	1	11104-28-2	
PCB-1232	Not detected	0.1	0.020	ug/L	1	11141-16-5	
PCB-1248	Not detected	0.1	0.043	ug/L	1	12672-29-6	
PCB-1254	Not detected	0.1	0.032	ug/L	1	11097-69-1	
PCB-1260	Not detected	0.1	0.012	ug/L	1	11096-82-5	

TCL PCB List (Column 2), Method: SW8082A, Run Date: 08/16/18 17:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	0.1	0.026	ug/L	1	12674-11-2	
PCB-1242	Not detected	0.1	0.012	ug/L	1	53469-21-9	
PCB-1221	Not detected	0.1	0.025	ug/L	1	11104-28-2	
PCB-1232	Not detected	0.1	0.019	ug/L	1	11141-16-5	
PCB-1248	Not detected	0.1	0.041	ug/L	1	12672-29-6	
PCB-1254	Not detected	0.1	0.050	ug/L	1	11097-69-1	
PCB-1260	Not detected	0.1	0.019	ug/L	1	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID: S92847
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: RACER Buick City
Submitted: 08/10/2018 15:20 Login User: MMC

Attention: Micki Maki
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1909 FAX: 248-994-2241
Email: micki.maki@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.2
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 3

111700

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki / Megan Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Drive STE 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-994-2283 FAX NO.: 248-994
P.O. NO.: B0064410.2018.01905
E-MAIL ADDRESS: megan.humphrey@arcadis.com
QUOTE NO.: WA121

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kaitlyn Vort Kaitlyn Vort
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER 10 working days
DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☒ LEVEL IV ☒ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	TCLP PCB VOC SVOC Metals Reactivity Corrosivity Ignitability	PCB	% Solids	Special Instructions
92846.01	8/7/18	1125	SB-81-EX-WC 08072018	S	1	1							1			
.02	8/7/18	1540	70-101/3-EX-WC 08072018	S	1	1							1			
.03	8/8/18	0935	AOI10-EX-WC1 08082018	S	1	1							1			
.04	8/8/18	1055	AOI10-EX-WC2 08082018	S	1	1							1			
92847.01	8/8/18	1355	SB-DH-RW-3-51(7-9)08082018	S	2	2								1	1	
.02	8/8/18	1400	SB-DH-RW-3-51(9-11)08082018	S	2	2								1	1	
.03	8/8/18	1405	SB-DH-RW-3-51(11-13)08082018	S	2	2								1	1	
.04	8/8/18	1410	SB-DH-RW-3-51(13-15)08082018	S	2	2								1	1	
92846.05	8/8/18	1415	DH-RW-3 Ex 3-WC 08082018	S	1	1							1			
92847.05	8/8/18	1545	SB-DH-RW-3-52(7-9)08082018	S	2	2								1	1	**HOLD**
.06	8/8/18	1550	SB-DH-RW-3-52(9-11)08082018	S	2	2								1	1	**HOLD**
.07	8/8/18	1645	SB-DH-RW-3-52(11-13)08082018	S	2	2								1	1	**HOLD**

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kaitlyn Vort Arcadis ☒ Sampler	8/9/18	1900	
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage	8/9/18	1900	
RELINQUISHED BY: SIGNATURE/ORGANIZATION		8/10/18	1300	
RECEIVED BY: SIGNATURE/ORGANIZATION	Meg	8/10/18	13	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Meg	8-10-18	1520	
RECEIVED BY: SIGNATURE/ORGANIZATION		8/10/18	1520	

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.2

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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C.O.C. PAGE # 2 OF 3

111701

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki / Megan Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Drive STE 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248 994 2283 FAX NO.: 248 994 2241 P.O. NO.: B006410.2018.01905
E-MAIL ADDRESS: megan.humphrey@arcadis.com QUOTE NO.: WA121

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kaitlyn Voet Kaitlyn Voet

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER 10 working days

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☒ LEVEL IV ☒ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	TCLP PCB, VOC, SVOC, Metals, Reactivity, Corrosivity, Ignitability	PCB	% Solids	Special Instructions
92847.08	8/8/18	1650	SB-DH-RW-3-52(13-15)08082018	S	2	2								1	1	★ HOLD ★
.09	8/8/18	1555	SB-DH-RW-3-52(15-17)08082018	S	2	2								1	1	★★ HOLD ★★
.10	8/8/18	1600	SB-DH-RW-3-52(17-19)08082018	S	2	2								1	1	★★ HOLD ★★
.11	8/8/18	—	DUP-2 08082018	S	2	2								1	1	
.12	8/9/18	1030	SB-DH-RW-3-54(5-7)08092018	S	2	2								1	1	
.13	8/9/18	1035	SB-DH-RW-3-54(7-9)08092018	S	2	2								1	1	
.14	8/9/18	1040	SB-DH-RW-3-54(9-11)08092018	S	2	2								1	1	
.15	8/9/18	1045	SB-DH-RW-3-54(11-13)08092018	S	2	2								1	1	
.16	8/9/18	1050	SB-DH-RW-3-54(13-15)08092018	S	2	2								1	1	
92846.06	8/9/18	1055	DH-RW-3 Ex1-WC08092018	S	1	1							1			
92847.17	8/9/18	1210	SB-DH-RW-3-53(9-11)08092018	S	2	2								1	1	★ HOLD ★
.18/.19/20	8/9/18	1215	SB-DH-RW-3-53(11-13)08092018	S	4	4								3	1	MS/MSD ★ HOLD ★

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kaitlyn Voet Arcadis ☒ Sampler	DATE 8/9/18	TIME 1900
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage	DATE 8/9/18	TIME 1900
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 8/10/18	TIME 1300
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 8/10/18	TIME 1520
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 8/10/18	TIME 1300
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 8-16-18	TIME 13

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.2

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 3 OF 3

111702

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki / Megan Humphrey
COMPANY: Arcadis
ADDRESS: 28550 Cabot Drive STE500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248-994-2283 FAX NO.: 248-994 2241 P.O. NO.: 80004410,2018.01905
E-MAIL ADDRESS: megan.humphrey@arcadis.com QUOTE NO.: WA 121

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER Buick City
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kaitlyn Vogt Kaitlyn Vogt

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER 10 working days

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☒ LEVEL IV ☒ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB	% Solids	Special Instructions
928472[illegible]	8/9/18	1220	SB-DH-RW-3-53(13-15)08092018	S	2	2							1	1	★HOLD★
.22	8/9/18	1225	SB-DH-RW-3-53(15-17)08092018	S	2	2							1	1	★HOLD★
.23	8/9/18	1415	EB-3 08092018	W	2	2							2		

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Kaitlyn Vogt Arcadis (Sampler)	DATE 8/9/18	TIME 1900	
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage	DATE 8/9/18	TIME 1900	
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 8/10/18	TIME 13[illegible]	
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 8-10-18	TIME 13[illegible]	

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 8/10/18	TIME 1520	
RECEIVED BY: SIGNATURE/ORGANIZATION	M Metcalf	DATE 8/10/18	TIME 1520	

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.2

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE