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Date:

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Arcadis Project No.:

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Subject:

PCB Concrete Investigation Summary
RACER Buick City Site, Flint, Michigan

This memo and supporting figures and attachments has been prepared to respond to Item 1 of the Michigan Department of Environment, Great Lakes, and Energy (EGLE) October 30, 2023 letter to Ashley Capital and RACER Trust – *Review of Concrete Razing, Crushing, Reuse, Utility Construction, and Soil Cover Plan; RACER Buick City*”. Ashley Capital will respond to the remainder of the letter. Item 1 requested results from the additional concrete sampling results from RACER. A summary of the concrete sampling, which was completed between October and December 2023, is provided below.

Please note that this information has also been included in the 761.61(C) memo submitted to EPA and provides the basis for including these areas in the TSCA Restrictive Covenant.

Concrete Investigation Background

A review of historic documents from the RACER Buick City Site (Site) identified a Facility Environmental Assessment (FEA) completed in 2007 for Former Factory 83/84 (also known as Factory 31) (2007 FEA, O'Brien and Gere). A recent review of the 2007 FEA report revealed that the Traverse Group, Inc. (TGI) had previously conducted an initial FEA and sampling of Factory 83/84 in 2004-2005 where PCB-impacted wood block flooring was identified and two areas where PCB-impacted trench/pit debris was identified (**Figure 1**). Subsequent additional sampling was completed by OBG in 2007.

The 2007 FEA report also identified five areas on the former Factory 83/84 slab where PCBs were detected above 1 ppm in concrete. Factory 83/84 was demolished between 2010 and 2012 and the slab

was power washed as a part of the demolition. These five areas were revisited, and additional samples were collected in October through December 2023 to determine whether PCBs were still present at concentrations greater than 1 ppm in the concrete following the demolition activities.

Note that the 2011 FEA (O'Brien and Gere) and 2012 Deactivation Report (Arcadis) for Factories 05, 10, and 81(2011 FEA, O'Brien and Gere), and the 2008 FEA for Building 86 (O'Brien and Gere) did not report detections of PCBs in concrete floor samples at concentrations greater than 1 ppm.

Concrete Sampling Methodology

Concrete samples for investigation and horizontal delineation purposes were collected from the top 1-inch of concrete at each location using a hammer drill to collect a pulverized sample. In order to obtain adequate sample volume three holes were drilled adjacent to one another to the 1-inch depth and the pulverized concrete was combined into a single sample.

In addition, at eight locations (FLR-044, FLR-092, CC-83/84-06, CC-83/84-22, CC-83/84-109, CC-83/84-110, CC-83/84-111, CC-83/84-112) concrete samples were also collected at depth (5 to 8-inches or 8 to 12-inches) for vertical characterization purposes to determine if PCB impacts are present at depth. Please note that as samples were collected using a hammer drill there is a potential for 'drag down' from shallower impacts. As such the deeper sample results may not necessarily be representative of the impacts in the deeper interval.

Concrete Investigation and Delineation Sampling Overview

The concrete sampling locations provided in the 2007 FEA were overlain on current Site drawings and 14 detections of PCBs greater than 1 ppm from 2007 were identified. A table of the concrete sample results excerpted from the 2007 FEA is presented in **Attachment A**.

In 2023, concrete samples were collected from 88 locations to investigate and delineate the previously identified detections of PCB impacts. In addition, five concrete samples (CC-83/84-15, -39, -40, -42, and -47) were collected from two former wood block floor areas identified in the historic TGI report (Traverse Group, Inc., 2005) where no samples had previously been collected and analyzed for PCBs. The concrete samples collected in the identified wood block floor areas not previously sampled did not detect PCBs above 1 ppm (**Table 1**). Boring logs and field notes are presented in **Attachment B**.

Figure 1 presents the 2007 FEA concrete sampling locations and the 2023 delineation sample locations. The 2007 FEA sample locations are identified as FLR-###, for example FLR-118, while the 2023 sample locations are identified as CC-83/84-###, such as CC-83/84-118. Note that as mentioned above, as part of the 2023 sampling event deep concrete samples were collected from two of the 2007 FEA sampling locations (FLR-044 and FLR-092). Therefore, the 2007 data collected at these locations is presented in **Attachment A**, while the 2023 sample data is presented in **Tables 3 and 7**.

PCB Impacts and Delineation

The 2023 sampling activities confirmed the presence of PCBs present at a concentration greater than 1 ppm in five areas at Factory 83/84. The delineation data area presented in **Tables 2 through 10** and the locations are shown on **Figures 2 and 3**, as discussed below.

PCB Area #22

A total of 42 concrete samples were collected from 40 locations at PCB Area #22 during the 2007 and 2023 sampling events. Forty samples were collected from a depth of 0 to 1-inch and two samples were collected from depths of 8 to 9-inches or 8 to 12-inches, as discussed below.

- A total of 18 concrete samples (collected from 17 locations) detected PCBs at a concentration greater than 1 ppm with detections ranging from 1.1 to 16 ppm (**Figure 2**). **Table 2** presents a summary of the 2023 PCB detections greater than 1 ppm. The 2007 FEA PCB detections greater than 1 ppm (FLR-089, -090, -091, -092, -093, -095, and -096) are presented in **Attachment A**.
- The PCB impacts are delineated by 18 concrete samples (collected from 18 locations). One of the delineation samples (FLR-079) was collected during the 2007 FEA (**Attachment A**), while the remaining 17 concrete samples were collected as part of the current investigation (**Table 3**). **Table 3** also presents the results of sample collected at depth at FLR-092, discussed further below.
- Two deeper concrete samples were also collected at PCB Area #22. The sample collected at FLR-092 was collected from 8 to 9-inches bgs (bottom of the concrete) and the sample at CC-83/84-06 was collected from 8 to 12-inches bgs. The sample collected at FLR-092 did not detect PCBs (**Table 3**), while the sample collected at CC-83/84-06 detected PCBs at a concentration of 6 ppm (**Table 2**). Concrete in this area is 9 -inches to 1-foot thick.

PCB Area #23

A total of 6 concrete samples (collected from 6 locations) were collected at PCB Area #23 during the 2007 and 2023 sampling events. The samples were collected from a depth of 0 to 1-inch.

- One concrete sample collected during the 2007 FEA at location FLR-081 detected PCBs in concrete at a concentration greater than 1 ppm with detection of 3 ppm (**Figure 2**, **Attachment A**).
- The impacted location is delineated by samples collected from five locations. Three samples collected at FLR-084, -085 and -086 were collected during the 2007 FEA (**Attachment A**), while the remaining two concrete samples were collected from CC-83/84-106 and -107 as part of the current investigation (**Table 4**).

PCB Area #24

A total of 10 concrete samples (collected from 10 locations) were collected at PCB Area #24 during the 2007 and 2023 sampling events. The samples were collected from a depth of 0 to 1-inch.

- Two concrete samples detected PCBs at concentrations greater than 1 ppm ranging from 6 to 6.8 ppm (**Figure 3**). **Table 5** presents a summary of the 2023 PCB detections greater than 1 ppm.

- The impacted concrete is delineated by samples collected from eight locations. Three of the delineation samples (FLR-050, -052, and -054) were collected during the 2007 FEA (**Attachment A**), while the remaining five concrete samples (CC-83/84-55, -56, -57, -92 and -93) were collected as part of the current investigation (**Table 6**).

PCB Area #25

A total of 50 concrete samples (collected from 44 locations) were collected at PCB Area #25 during the 2007 and 2023 sampling events. Forty-four samples were collected from a depth of 0 to 1-inch and six samples were collected from depths of 5 to 8-inches or 8 to 12-inches, as discussed below.

- A total of 23 concrete samples (collected from 20 locations) at PCB Area #25 detected PCBs at a concentration greater than 1 ppm (**Figure 3**) with concentrations ranging from 1.2 to 140 ppm. **Table 7** presents a summary of the 2023 PCB detections greater than 1 ppm. The 2007 FEA PCB detections greater than 1 ppm (FLR-028, -042, -043, -044, and -045) are presented in **Attachment A**.
- The PCB impacts are delineated by samples collected from 17 concrete samples (collected from 17 locations). Three of the delineation samples (FLR-029, -032, and -033) were collected during the 2007 FEA (**Attachment A**), while the remaining 14 concrete samples were collected as part of the current investigation (**Table 8**).
- Six deeper concrete samples were also collected at PCB Area #25 at depths of 5 to 8-inches or 8 to 12-inches bgs. Three of the samples (CC-83/84-22, CC-83/84-111, and FLR-044) detected PCBs at concentrations greater than 1 ppm (**Table 7**). The remaining three samples (CC-83/84-109, CC-83/84-110, and CC-83/84-112) did not detect PCBs (**Table 7**). Concrete in this area is 8-inches to 1 foot thick.
- Three concrete samples detected PCBs at concentrations greater than 25 ppm. Two samples collected at CC-83/84-22 detected PCBs at concentrations of 62 and 97 ppm and a sample collected at CC-83/84-118 detected PCBs at 140 ppm.
- In December 2023/January 2024 the PCB impacts greater than 25 ppm at CC-83/84-22 and CC-83/84-118 were removed and disposed of at an offsite facility. Impacted concrete was removed to delineation locations CC-83/84-91 and CC-83/84-109 through -112, where PCBs results were less than 25 ppm. Following completion of the initial concrete removal in December 2023, six confirmation samples (CC-83/84-113 through -118, **Table 9**) of concrete were collected between CC-83/84-109 through -112 (**Figure 4**). The PCB results at the confirmation locations were less than 25 ppm, with the exception of CC-83/84-118, which detected PCBs at 140 ppm (**Table 8**). An additional excavation was then completed in January 2024 to remove the concrete at CC-83/84-118. The extents of the completed concrete removal are shown on **Figure 4**.
- The concrete left in place and the soils beneath the concrete after removal were inspected. No evidence of an oil release through or beneath the concrete was observed. Given that the

PCBs on the surface were mostly likely from an oil source (and there is no known other source of PCBs at this location) the absence of any signs of oil release through or beneath the concrete did not require the need to sample the soils.

PCB Area #26

A total of five concrete samples (collected from 5 locations) were collected at PCB Area #26 during the 2007 and 2023 sampling events. The samples were collected from a depth of 0 to 1-inch.

- One concrete sample collected during the 2007 FEA (FLR-035) detected PCBs at a concentration greater than 1 ppm at a concentration 2.5 ppm (**Figure 3, Attachment A**).
- The impacted concrete is delineated by samples collected from four locations. Three of the samples (FLR-036, -037, and -038) were collected during the 2007 FEA (**Attachment A**), while the remaining concrete sample (CC-83/84-58) was collected as part of the current investigation (**Table 10**).

References

Arcadis, 2012. Buick City – Deactivation Report - Northend (formerly General Motors Corporation North American Operations Facility). Prepared for Revitalization Auto Communities Environmental Response Trust, September 2012.

O'Brien and Gere, 2007. FEA of Factory 31 – GM Powertrain-Flint North, Flint, Michigan. June 6, 2007.

O'Brien and Gere, 2008. Draft Facility Environmental Assessment – Flint Powertrain North – Buildings 86A and 86B. March 2008.

O'Brien and Gere, 2011. FEA Report – Flint North Complex – Buildings 5, 10, and 81. Prepared for Motors Liquidation Company. January 2011.

Traverse Group, Inc, 2005. Building Decommissioning Assessment, General Motors Corporation, Flint North Powertrain Facility, Buildings 38, 65, 97, and Factory 31.

Enclosures

Figure 1 – Factory 83/84 Concrete Sampling Locations

Figure 2 – PCB Areas #22 and #23 Proposed Restrictions

Figure 3 – Proposed Restrictions for PCB Areas #24, #25, and #26

Figure 4 – PCB Area #25 Concrete Removal Area

Table 1- Samples Collected from Former Wood Block Areas Not Previously Sampled

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Table 2 – PCB Area #22 – Impacts Greater than 1 PPM

Table 3 – PCB Area #22 – Delineation Samples

Table 4 – PCB Area #23 – Delineation Samples

Table 5 – PCB Area #24 – Impacts Greater than 1 PPM

Table 6 – PCB Area #24 – Delineation Samples

Table 7 – PCB Area #25 – Impacts Greater than 1 PPM

Table 8 – PCB Area #25 – Delineation Samples

Table 9 – PCB Area #25 – Confirmation Sample Results

Table 10 – PCB Area #26 – Delineation Sample

Attachment A – OBG 2007 Facility Environmental Assessment

Attachment B – Field Notes and Laboratory Reports

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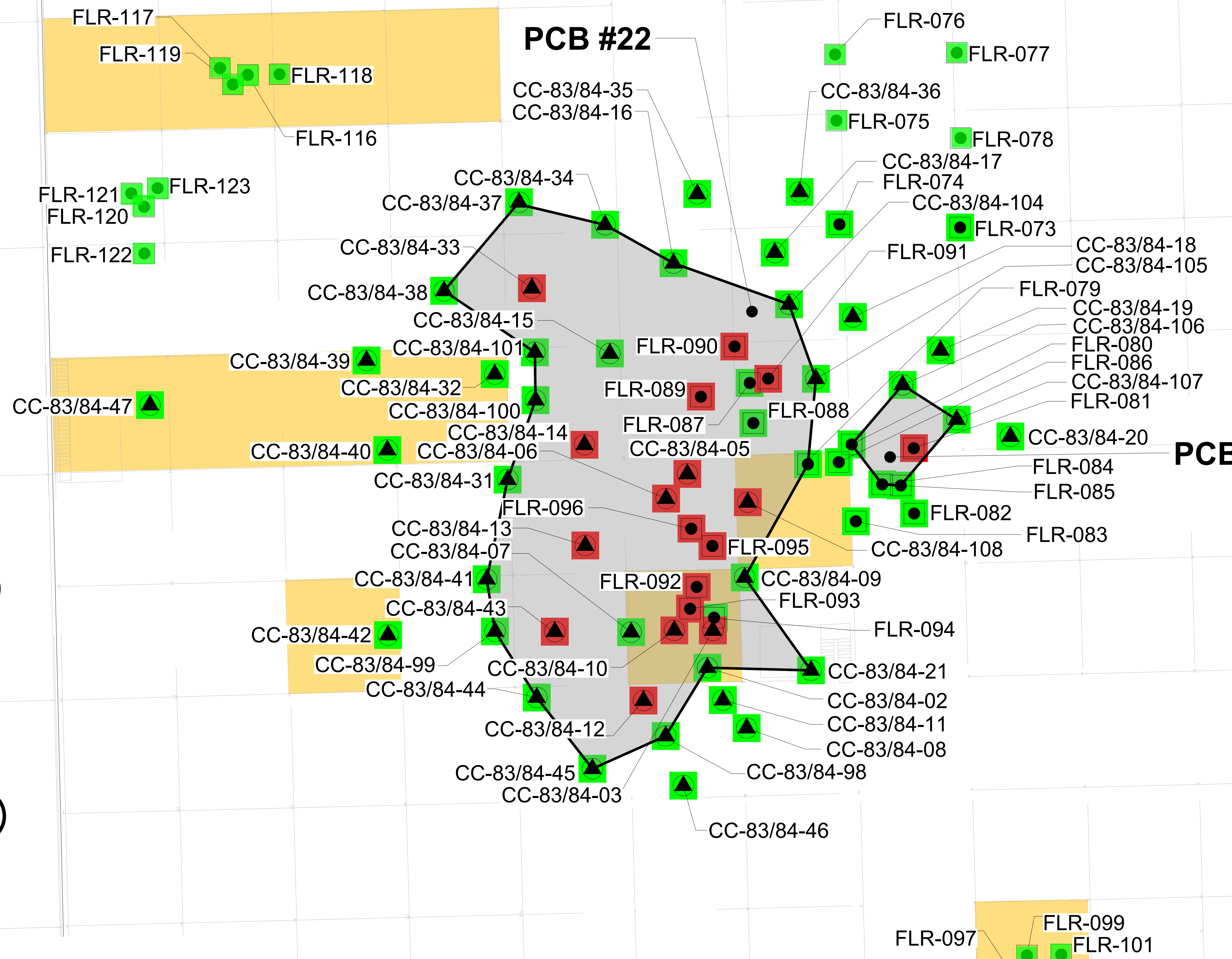
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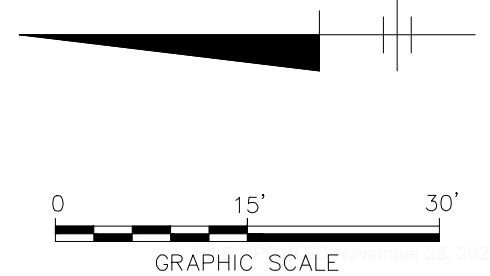
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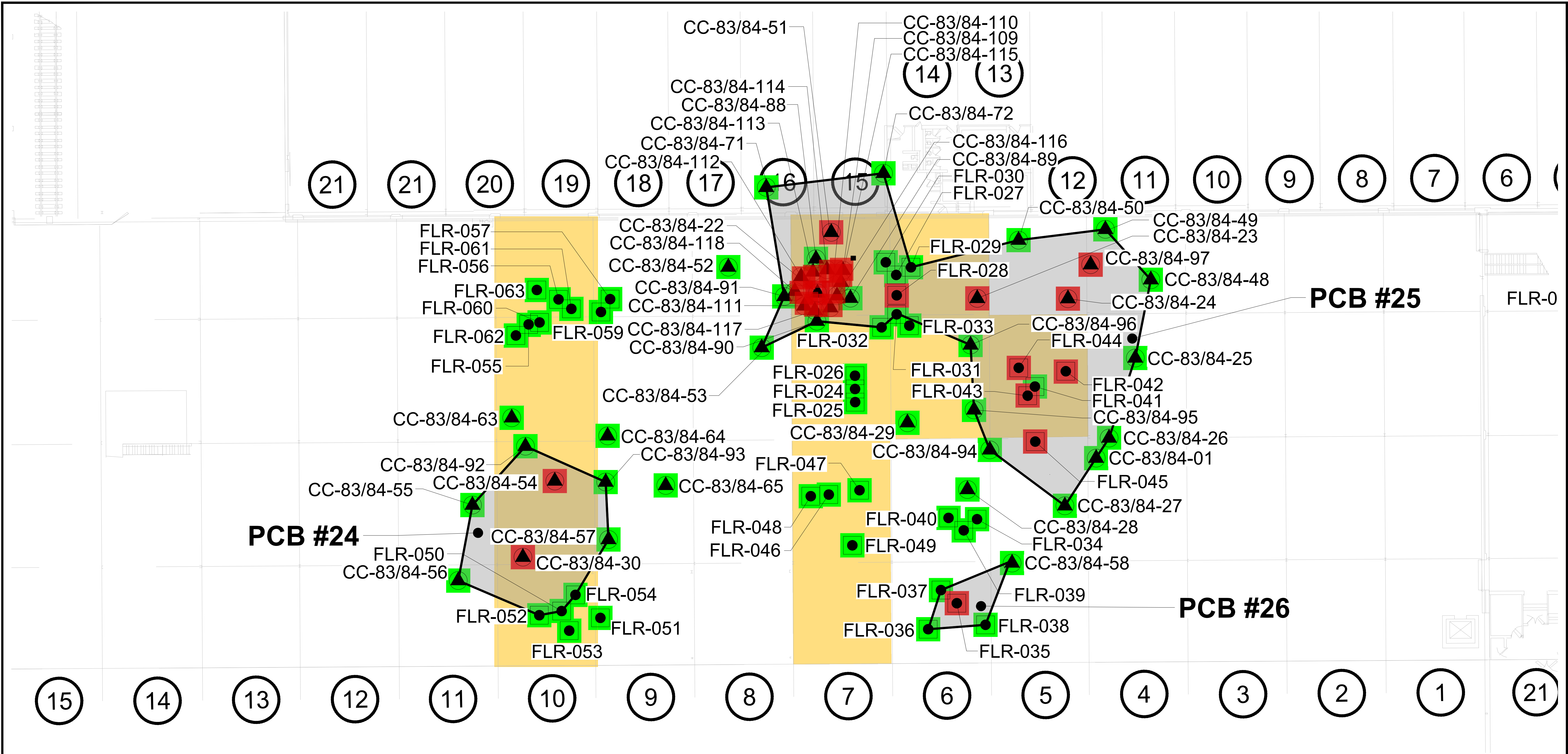


- LEGEND:**
- 2007 O'BRIEN AND GERE CONCRETE CORE > 1 PPM
 - 2007 O'BRIEN AND GERE CONCRETE CORE ≤ 1 PPM
 - 2023 CONCRETE CORE > 1 PPM
 - 2023 CONCRETE CORE ≤ 1 PPM
 - AREA OF PCB IMPACTED WOOD BLOCK FLOOR
 - EXTENT OF PROPOSED RESTRICTED AREA



RACER TRUST BUICK CITY FLINT, MICHIGAN 761.61(c) ADDENDUM #1	
PCB AREA #22 AND #23 PROPOSED RESTRICTIONS	
ARCADIS	<i>Design & Consultancy for natural and built assets</i>
FIGURE 2	

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- LEGEND:
- 2007 O'BRIEN AND GERE CONCRETE CORE > 1 PPM
 - 2007 O'BRIEN AND GERE CONCRETE CORE ≤ 1 PPM
 - ▲ 2023 CONCRETE CORE > 1 PPM
 - ▲ 2023 CONCRETE CORE ≤ 1 PPM
 - AREA OF PCB IMPACTED WOOD BLOCK FLOOR
 - EXTENT OF PROPOSED RESTRICTED AREA

RACER TRUST BUICK CITY FLINT, MICHIGAN 761.61(c) ADDENDUM #1	
PROPOSED RESTRICTIONS FOR PCB AREAS #24, #25, AND #26	
ARCADIS <small>Design & Consultancy for natural and built assets</small>	FIGURE 3

**Table 1 - Samples Collected From Former Wood Block Areas Not Previously Sampled
RACER Buick City, Flint, Michigan**

Location ID:		CC-83/84-15	CC-83/84-39	CC-83/84-40	CC-83/84-42	CC-83/84-47
Sample Depth(inches):		0-1	0-1	0-1	0-1	0-1
Date Collected:		10/30/23	11/06/23	11/06/23	11/06/23	11/06/23
PCB						
Aroclor-1016 (PCB-1016)	mg/kg	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
Aroclor-1232 (PCB-1232)	mg/kg	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
Aroclor-1248 (PCB-1248)	mg/kg	0.8	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
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33

Notes

U - Analyte not detected. Associated value is reporting limit.

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**Table 2 - PCB Area #22 - Impacts Greater Than 1 PPM
RACER Buick City, Flint, Michigan**

Location ID:		CC-83/84-03	CC-83/84-05	CC-83/84-06	CC-83/84-06	CC-83/84-10	CC-83/84-12	CC-83/84-13	CC-83/84-14	CC-83/84-33
Sample Depth(inches):		0-1	0-1	0-1	8-12	0-1	0-1	0-1	0-1	0-1
Date Collected:	Units	10/18/23	10/18/23	10/18/23	11/13/23	10/20/23	10/30/23	10/30/23	10/30/23	10/30/23

PCB										
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	1 UY	1 UY	1 UY	0.33 U	0.33 U	0.5 UY	1 UY	0.5 UY
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	1 UY	1 UY	1 UY	0.33 U	0.33 U	0.5 UY	1 UY	0.5 UY
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	1 UY	1 UY	1 UY	0.33 U	0.33 U	0.5 UY	1 UY	0.5 UY
Aroclor-1242 (PCB-1242)	mg/kg	1.3	8 Y	10 Y	6 Y	1.3	1.3	0.5 UY	7 Y	0.5 UY
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	1 UY	1 UY	1 UY	0.33 U	0.33 U	3.9 Y	1 UY	1.4 Y
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	1 UY	1 UY	1 UY	0.33 U	0.33 U	0.5 UY	1 UY	0.5 UY
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	1 UY	1 UY	1 UY	0.33 U	0.33 U	0.5 UY	1 UY	0.5 UY

Location ID:		CC-83/84-43	CC-83/84-108
Sample Depth(inches):		0-1	0-1
Date Collected:	Units	11/06/23	11/13/23

PCB			
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	2.1	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	1.1
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U

Notes

U - Analyte not detected. Associated value is reporting limit.
Y - Elevated reporting limit due to high target concentration

**Table 3 - PCB Area #22 - Delineation Samples
RACER Buick City, Flint, Michigan**

Location ID: Sample Depth(inches): Date Collected:		CC-83/84-02 0-1 10/18/23	CC-83/84-09 0-1 10/20/23	CC-83/84-16 0-1 10/30/23	CC-83/84-21 0-1 10/30/23	CC-83/84-31 0-1 10/30/23	CC-83/84-34 0-1 10/30/23	CC-83/84-37 0-1 11/06/23	CC-83/84-38 0-1 11/06/23	CC-83/84-41 0-1 11/06/23
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	0.4	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.7	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(inches): Date Collected:		CC-83/84-44 0-1 11/06/23	CC-83/84-45 0-1 11/06/23	CC-83/84-98 0-1 11/13/23	CC-83/84-99 0-1 11/13/23	CC-83/84-100 0-1 11/13/23	CC-83/84-101 0-1 11/13/23	CC-83/84-104 0-1 11/13/23	CC-83/84-105 0-1 11/13/23	FLR-092 8-9 11/13/23
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	0.53	0.79	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

**Table 4 - PCB Area #23 - Delineation Samples
RACER Buick City, Flint, Michigan**

Location ID:		CC-83/84-106	CC-83/84-107
Sample Depth(inches):		0-1	0-1
Date Collected:		11/13/23	11/13/23
PCB			
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U

Notes

U - Analyte not detected. Associated value is reporting limit.

**Table 5 - PCB Area #24 - Impacts Greater Than 1 PPM
RACER Buick City, Flint, Michigan**

Location ID:		CC-83/84-30	CC-83/84-54
Sample Depth(inches):		0-1	0-1
Date Collected:		10/30/23	11/06/23
PCB			
Aroclor-1016 (PCB-1016)	mg/kg	1 UY	1.5 UY
Aroclor-1221 (PCB-1221)	mg/kg	1 UY	1.5 UY
Aroclor-1232 (PCB-1232)	mg/kg	1 UY	1.5 UY
Aroclor-1242 (PCB-1242)	mg/kg	1 UY	1.5 UY
Aroclor-1248 (PCB-1248)	mg/kg	1 UY	1.5 UY
Aroclor-1254 (PCB-1254)	mg/kg	6.8 Y	6 Y
Aroclor-1260 (PCB-1260)	mg/kg	1 UY	1.5 UY

Notes

U - Analyte not detected. Associated value is reporting limit.

Y - Elevated reporting limit due to high target concentration

**Table 6 - PCB Area #24 - Delineation Samples
RACER Buick City, Flint, Michigan**

Location ID:		CC-83/84-55	CC-83/84-56	CC-83/84-57	CC-83/84-92	CC-83/84-93
Sample Depth(inches):		0-1	0-1	0-1	0-1	0-1
Date Collected:		11/06/23	11/06/23	11/06/23	11/13/23	11/13/23
PCB						
Aroclor-1016 (PCB-1016)	mg/kg	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
Aroclor-1232 (PCB-1232)	mg/kg	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
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.4	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

Notes

U - Analyte not detected. Associated value is reporting limit.

**Table 7 - PCB Area #25 - Impacts Greater Than 1 PPM
RACER Buick City, Flint, Michigan**

Location ID:		CC-83/84-22	CC-83/84-22	CC-83/84-23	CC-83/84-24	CC-83/84-51	CC-83/84-97	CC-83/84-109	CC-83/84-109	CC-83/84-110
Sample Depth(inches):		0-1	8-12	0-1	0-1	0-1	0-1	0 - 1	8 - 12	0 - 1
Date Collected:		10/30/23	11/13/23	10/30/23	10/30/23	11/06/23	11/13/23	12/04/23	12/04/23	12/04/23

PCB										
Aroclor-1016 (PCB-1016)	mg/kg	10 UY	21 UY	0.33 U	3 UY	0.33 U	0.33 U	0.5 UY	0.33 U	0.5 UY
Aroclor-1221 (PCB-1221)	mg/kg	10 UY	21 UY	0.33 U	3 UY	0.33 U	0.33 U	0.5 UY	0.33 U	0.5 UY
Aroclor-1232 (PCB-1232)	mg/kg	10 UY	21 UY	0.33 U	3 UY	0.33 U	0.33 U	0.5 UY	0.33 U	0.5 UY
Aroclor-1242 (PCB-1242)	mg/kg	10 UY	21 UY	0.33 U	3 UY	0.33 U	0.33 U	0.5 UY	0.33 U	0.5 UY
Aroclor-1248 (PCB-1248)	mg/kg	10 UY	21 UY	1.5	9 Y	0.33 U	0.33 U	0.5 UY	0.33 U	0.5 UY
Aroclor-1254 (PCB-1254)	mg/kg	62 Y	97 Y	0.33 U	3 UY	1.2	3.1	1.2 Y	0.33 U	2 Y
Aroclor-1260 (PCB-1260)	mg/kg	10 UY	21 UY	0.33 U	3 UY	0.33 U	0.33 U	0.5 UY	0.33 U	0.5 UY

Location ID:		CC-83/84-110	CC-83/84-111	CC-83/84-111	CC-83/84-112	CC-83/84-112	CC-83/84-113	CC-83/84-114	CC-83/84-115	CC-83/84-116
Sample Depth(inches):		5 - 8	0 - 1	5 - 8	0 - 1	5 - 8	0 - 1	0 - 1	0 - 1	0 - 1
Date Collected:		12/04/23	12/04/23	12/04/23	12/04/23	12/04/23	12/20/24	12/20/24	12/20/24	12/20/24

PCB										
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	3 UY	1.5 UY	2 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	3 UY	1.5 UY	2 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	3 UY	1.5 UY	2 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	3 UY	1.5 UY	2 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	3 UY	1.5 UY	2 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	16 Y	13 Y	18 Y	0.33 U	23	8.5	2.7	4.2
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	3 UY	1.5 UY	2 UY	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

Location ID:		CC-83/84-117	CC-83/84-118	FLR-044
Sample Depth(inches):		0 - 1	0 - 1	8-12
Date Collected:		12/20/24	12/20/24	11/13/23

PCB				
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U	0.33 U	0.50 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U	0.33 U	0.50 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U	0.33 U	0.50 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U	0.33 U	0.50 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.50 U
Aroclor-1254 (PCB-1254)	mg/kg	4.9	140	1.6
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U	0.33 U	0.50 U

Notes
 U - Analyte not detected. Associated value is reporting limit.
 Y - Elevated reporting limit due to high target concentration

**Table 8 - PCB Area #25 - Delineation Samples
RACER Buick City, Flint, Michigan**

Location ID:		CC-83/84-25	CC-83/84-26	CC-83/84-27	CC-83/84-48	CC-83/84-49	CC-83/84-50	CC-83/84-53	CC-83/84-71	CC-83/84-72
Sample Depth(inches):		0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
Date Collected:		10/30/23	10/30/23	10/30/23	11/06/23	11/06/23	11/06/23	11/06/23	11/06/23	11/06/23

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	0.8	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:		CC-83/84-90	CC-83/84-91	CC-83/84-94	CC-83/84-95	CC-83/84-96
Sample Depth(inches):		0-1	0-1	0-1	0-1	0-1
Date Collected:		11/13/23	11/13/23	11/13/23	11/13/23	11/13/23

PCB						
Aroclor-1016 (PCB-1016)	mg/kg	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
Aroclor-1232 (PCB-1232)	mg/kg	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
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U	0.44	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

Notes

U - Analyte not detected. Associated value is reporting limit.

Table 9 - PCB Area #25 - Confirmation Sample Results
RACER Buick City, Flint, Michigan

Location ID:		CC-83/84-113	CC-83/84-114	CC-83/84-115	CC-83/84-116	CC-83/84-117	CC-83/84-118
Sample Depth(inches):		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Date Collected:		12/20/24	12/20/24	12/20/24	12/20/24	12/20/24	12/20/24
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	23	8.5	2.7	4.2	4.9	140
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

U - Analyte not detected. Associated value is reporting limit.

**Table 10 - PCB Area #26 - Delineation Sample
RACER Buick City, Flint, Michigan**

Location ID:		CC-83/84-58
Sample Depth(inches):		0-1
Date Collected:	Units	11/06/23
PCB		
Aroclor-1016 (PCB-1016)	mg/kg	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	0.33 U

Notes

U - Analyte not detected. Associated value is reporting limit.

ATTACHMENT A

OBG 2007 Facility Environmental Assessment



GENERAL MOTORS CORPORATION
Powertrain Flint North
Flint, MI
FACILITY ENVIRONMENTAL ASSESSMENT UPDATE

TABLE 4 - SAMPLE RESULTS - PCB DELINEATION SAMPLES

DELINEATION SAMPLE ID	BUILDING	DELINEATION AREA	Individual Aroclor Concentrations (ug/kg)							TOTAL PCB CONCENTRATION (mg/kg)
			PCB-1016	PCB-1242	PCB-1221	PCB-1232	PCB-1248	PCB-1254	PCB-1260	
FLR-024	66	Area 4	<330	<330	<330	<330	<330	<330	<330	ND*
FLR-025	66	Area 4	<330	<330	<330	<330	<330	1000	<330	1.00
FLR-026	66	Area 4	<330	<330	<330	<330	<330	500	<330	0.50
FLR-027	66	Area 5	<330	<330	<330	<330	850	<330	<330	0.85
FLR-028	66	Area 5	<330	<330	<330	<330	1100	<330	<330	1.10
FLR-029	66	Area 5	<330	<330	<330	<330	<330	<330	<330	ND
FLR-030	66	Area 5	<330	<330	<330	<330	<330	<330	<330	ND
FLR-031	66	Area 5	<330	<330	<330	<330	450	<330	<330	0.45
FLR-032	66	Area 5	<330	<330	<330	<330	<330	700	<330	0.70
FLR-033	66	Area 5	<330	<330	<330	<330	900	<330	<330	0.90
FLR-034	66	Area 6	<330	<330	<330	<330	<330	400	<330	0.40
FLR-035	66	Area 6	<330	<330	<330	<330	<330	2500	<330	2.50
FLR-036	66	Area 6	<330	<330	<330	<330	<330	<330	<330	ND
FLR-037	66	Area 6	<330	<330	<330	<330	<330	500	<330	0.50
FLR-038	66	Area 6	<330	<330	<330	<330	<330	<330	<330	ND
FLR-039	66	Area 6	<330	<330	<330	<330	<330	400	<330	0.40
FLR-040	66	Area 6	<330	<330	<330	<330	<330	300	<330	0.30
FLR-041	66	Area 7	<330	<330	<330	<330	500	<330	<330	0.50
FLR-042	66	Area 7	<500	<500	<500	<500	3700	<500	<500	3.70
FLR-043	66	Area 7	<330	<330	<330	<330	1200	<330	<330	1.20
FLR-044	66	Area 7	<1000	<1000	<1000	<1000	17000	<1000	<1000	17.00
FLR-045	66	Area 7	<330	<330	<330	<330	1300	<330	<330	1.30
FLR-046	66	Area 3	<330	<330	<330	<330	<330	<330	<330	ND
FLR-047	66	Area 3	<330	<330	<330	<330	<330	<330	<330	ND
FLR-048	66	Area 3	<330	<330	<330	<330	<330	300	<330	0.30
FLR-049	66	Area 3	<330	<330	<330	<330	<330	<330	<330	ND
FLR-050	66	Area 1	<1000	<1000	<1000	<1000	<1000	1000	<1000	1.00
FLR-051	66	Area 1	<330	<330	<330	<330	<330	<330	<330	ND
FLR-052	66	Area 1	<330	<330	<330	<330	<330	<330	<330	ND
FLR-053	66	Area 1	<330	<330	<330	<330	<330	330	<330	0.33
FLR-054	66	Area 1	<1000	<1000	<1000	<1000	<1000	<1000	<1000	ND
FLR-055	66	Area 2	<330	<330	<330	<330	<330	500	<330	0.50
FLR-056	66	Area 2	<330	<330	<330	<330	<330	<330	<330	ND
FLR-057	66	Area 2	<330	<330	<330	<330	<330	<330	<330	ND
FLR-058	66	Area 2	<330	<330	<330	<330	<330	<330	<330	ND
FLR-059	66	Area 2	<330	<330	<330	<330	<330	<330	<330	ND

GENERAL MOTORS CORPORATION
Powertrain Flint North
Flint, MI
FACILITY ENVIRONMENTAL ASSESSMENT UPDATE

TABLE 4 - SAMPLE RESULTS - PCB DELINEATION SAMPLES

DELINEATION SAMPLE ID	BUILDING	DELINEATION AREA	Individual Aroclor Concentrations (ug/kg)							TOTAL PCB CONCENTRATION (mg/kg)
			PCB-1016	PCB-1242	PCB-1221	PCB-1232	PCB-1248	PCB-1254	PCB-1260	
FLR-060	66	Area 2	<330	<330	<330	<330	<330	<330	<330	ND
FLR-061	66	Area 2	<330	<330	<330	<330	<330	350	<330	0.35
FLR-062	66	Area 2	<330	<330	<330	<330	<330	400	<330	0.40
FLR-063	66	Area 2	<330	<330	<330	<330	<330	400	<330	0.40
FLR-064	66A	Area 8	<330	<330	<330	<330	<330	<330	<330	ND
FLR-065	66A	Area 8	<330	<330	<330	<330	<330	<330	<330	ND
FLR-066	66A	Area 8	<330	<330	<330	<330	<330	<330	<330	ND
FLR-067	66A	Area 8	<330	<330	<330	<330	<330	<330	<330	ND
FLR-068	66A	Area 8	<330	<330	<330	<330	<330	<330	<330	ND
FLR-069	66A	Area 9	<330	<330	<330	<330	<330	<330	<330	ND
FLR-070	66A	Area 9	<330	<330	<330	<330	<330	<330	<330	ND
FLR-071	66A	Area 9	<330	<330	<330	<330	<330	<330	<330	ND
FLR-072	66A	Area 9	<330	<330	<330	<330	<330	<330	<330	ND
FLR-073	11	Area 15	<330	<330	<330	<330	<330	<330	<330	ND
FLR-074	11	Area 15	<330	<330	<330	<330	<330	<330	<330	ND
FLR-075	11	Area 15	<330	<330	<330	<330	<330	<330	<330	ND
FLR-076	11	Area 15	<330	<330	<330	<330	<330	<330	<330	ND
FLR-077	11	Area 15	<330	<330	<330	<330	<330	<330	<330	ND
FLR-078	11	Area 15	<330	<330	<330	<330	<330	<330	<330	ND
FLR-079	11	Area 14	<330	<330	<330	<330	<330	<330	<330	ND
FLR-080	11	Area 14	<330	<330	<330	<330	<330	<330	<330	ND
FLR-081***	11	Area 14	<3000	<3000	<3000	<3000	<3000	<3000	<3000	3.00
FLR-082	11	Area 14	<330	<330	<330	<330	<330	<330	<330	ND
FLR-083	11	Area 14	<330	<330	<330	<330	<330	<330	<330	ND
FLR-084	11	Area 14	<330	<330	<330	<330	<330	390	<330	0.39
FLR-085	11	Area 14	<330	<330	<330	<330	<330	<330	<330	ND
FLR-086	11	Area 14	<330	<330	<330	<330	<330	<330	<330	ND
FLR-087	11	Area 13	<330	1000	<330	<330	<330	<330	<330	1.00
FLR-088	11	Area 13	<330	<330	<330	<330	300	<330	<330	0.30
FLR-089	11	Area 13	<500	<500	<500	<500	3500	<500	<500	3.50
FLR-090	11	Area 13	<500	<500	<500	<500	4000	<500	<500	4.00
FLR-091	11	Area 13	<330	<330	<330	<330	1400	<330	<330	1.40
FLR-092	11	Area 12	<2500	16000	<2500	<2500	<2500	<2500	<2500	16.00
FLR-093	11	Area 12	<500	<500	<500	<500	8500	<500	<500	8.50
FLR-094	11	Area 12	<330	<330	<330	<330	700	<330	<330	0.70
FLR-095	11	Area 12	<500	<500	<500	<500	7500	<500	<500	7.50

GENERAL MOTORS CORPORATION
Powertrain Flint North
Flint, MI
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TABLE 4 - SAMPLE RESULTS - PCB DELINEATION SAMPLES

DELINEATION SAMPLE ID	BUILDING	DELINEATION AREA	Individual Aroclor Concentrations (ug/kg)							TOTAL PCB CONCENTRATION (mg/kg)
			PCB-1016	PCB-1242	PCB-1221	PCB-1232	PCB-1248	PCB-1254	PCB-1260	
FLR-096	11	Area 12	<500	<500	<500	<500	5000	<500	<500	5.00
FLR-097	11	Area 11	<330	<330	<330	<330	<330	<330	<330	ND
FLR-098	11	Area 11	<330	<330	<330	<330	<330	<330	<330	ND
FLR-099	11	Area 11	<330	<330	<330	<330	<330	<330	<330	ND
FLR-100	11	Area 11	<330	<330	<330	<330	<330	<330	<330	ND
FLR-101	11	Area 11	<330	<330	<330	<330	<330	<330	<330	ND
FLR-102	11	Area 11	<330	<330	<330	<330	<330	<330	<330	ND
FLR-103	11	Area 11	<330	<330	<330	<330	<330	<330	<330	ND
FLR-104	11	Area 11	<330	<330	<330	<330	<330	600	<330	0.60
FLR-105	11	Area 11	<330	<330	<330	<330	<330	700	<330	0.70
FLR-106	11	Area 10	<330	<330	<330	<330	<330	<330	<330	ND
FLR-107	11	Area 10	<330	<330	<330	<330	<330	<330	<330	ND
FLR-108	11	Area 10	<330	<330	<330	<330	<330	<330	<330	ND
FLR-109	11	Area 10	<330	<330	<330	<330	<330	400	<330	0.40
FLR-110	11	Area 10	<330	<330	<330	<330	<330	<330	<330	ND
FLR-111	11	Area 10	<330	<330	<330	<330	<330	<330	<330	ND
FLR-112	11	Area 17	<330	<330	<330	<330	<330	<330	<330	ND
FLR-113	11	Area 17	<330	<330	<330	<330	<330	<330	<330	ND
FLR-114	11	Area 17	<330	<330	<330	<330	<330	<330	<330	ND
FLR-115	11	Area 17	<330	<330	<330	<330	<330	<330	<330	ND
FLR-116	11	Area 16	<330	<330	<330	<330	<330	<330	<330	ND
FLR-117	11	Area 16	<330	<330	<330	<330	<330	<330	<330	ND
FLR-118	11	Area 16	<330	<330	<330	<330	<330	<330	<330	ND
FLR-119	11	Area 16	<330	<330	<330	<330	<330	<330	<330	ND
FLR-120	11	Area 16	<330	<330	<330	<330	440	<330	<330	0.44
FLR-121	11	Area 16	<330	<330	<330	<330	<330	<330	<330	ND
FLR-122	11	Area 16	<330	<330	<330	<330	<330	<330	<330	ND
FLR-123	11	Area 16	<330	<330	<330	<330	<330	<330	<330	ND

*ND denotes sample non-detect at laboratory detection limit
 **Highlighted entries denote PCB concentrations greater than 1 mg/kg
 ***Sample FLR-081 non-detect at elevated detection limit. Sample result taken as 3.0 mg/kg as opposed to ND.

ATTACHMENT B

FIELD NOTES AND LABORATORY REPORTS



Project Name : RACER Buick City 2023

Weather(°F) : 40°F, windy

Project Number : 30174223

Prepared By: Madison Olender

Purpose : Concrete sampling

PPE : Level D

Equipment: N/A

Date	Time	Description of Activities
10/30/2023	08:00	Onsite
10/30/2023	08:20	Meet with J. Barker and S. Guy
10/30/2023	08:30	Young's onsite
10/30/2023	09:40	Collect CC-83/84-12_103023
10/30/2023	09:55	Collect CC-83/84-13_103023
10/30/2023	10:10	Collect CC-83/84-21_103023
10/30/2023	10:20	Collect CC-83/84-20_103023
10/30/2023	10:30	Collect CC-83/84-19_103023
10/30/2023	10:40	Collect CC-83/84-18_103023
10/30/2023	11:30	Collect CC-83/84-25_103023
10/30/2023	11:35	Collect CC-83/84-26_103023
10/30/2023	11:40	Collect CC-83/84-27_103023
10/30/2023	11:45	Collect CC-83/84-28_103023
10/30/2023	11:47	Collect CC-83/84-29_103023
10/30/2023	11:50	Collect CC-83/84-22_103023
10/30/2023	11:55	Collect CC-83/84-23_103023
10/30/2023	12:00	Collect CC-83/84-24_103023
10/30/2023	12:20	Collect CC-83/84-30_103023
10/30/2023	12:55	Collect CC-83/84-14_103023
10/30/2023	13:00	Collect CC-83/84-31_103023
10/30/2023	13:08	Collect CC-83/84-15_103023
10/30/2023	13:10	Collect SB-83/84-33_103023
10/30/2023	13:12	Collect CC-83/84-34_103023
10/30/2023	13:15	Collect CC-83/84-35_103023

Daily Log

10/30/2023	13:20	Collect CC-83/84-16_103023
10/30/2023	13:25	Collect CC-83/84-36_103023
10/30/2023	13:30	CC-83/84-17_103023
10/30/2023	14:30	Give sample to merit
10/30/2023	14:45	Arcadis offsite

Signature:

A handwritten signature in black ink, appearing to be 'MOR' with a long horizontal flourish extending to the right.

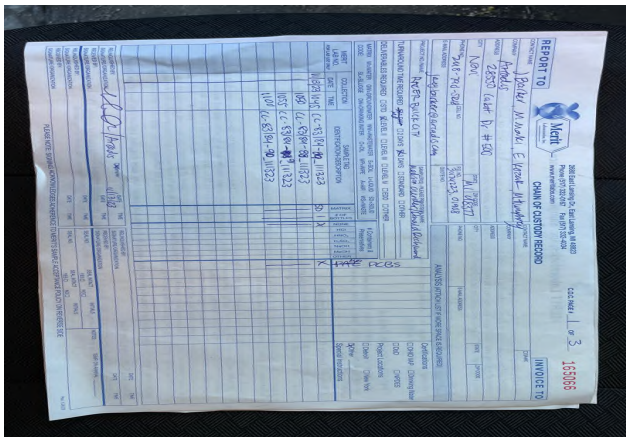
Project Name : RACER Buick City 2023
Project Number : 30174223
Purpose : Concrete sampling
PPE : Level D
Equipment: N/A

Weather(°F) : 48°F, sunny
Prepared By: Madison Olender

Date	Time	Description of Activities
11/13/2023	09:30	Onsite after grabbing buckets
11/13/2023	10:00	See attached COCs for all samples taken and sample times.
11/13/2023	13:54	CC-83/84-103 and -102 in the middle of puddle. Unable to complete.
11/13/2023	14:28	Concrete feels only 9" thick at FLR-092
11/13/2023	16:00	Offsite

Signature:

COC Photos





REPORT TO: **Met** 2023/11/03 15:50:02
 CHAIR OF CUSTOMER RECORDS
 155072

ASSIGNED BY: **ASR**
 NAME: **Nadi** 2023/11/03 15:50:02

2023/11/03 15:50:02

2023/11/03 15:50:02

LINE	DESCRIPTION	DATE	AMOUNT	CREDIT	BALANCE
1	2023/11/03 15:50:02				
2	2023/11/03 15:50:02				
3	2023/11/03 15:50:02				
4	2023/11/03 15:50:02				
5	2023/11/03 15:50:02				
6	2023/11/03 15:50:02				
7	2023/11/03 15:50:02				
8	2023/11/03 15:50:02				
9	2023/11/03 15:50:02				
10	2023/11/03 15:50:02				
11	2023/11/03 15:50:02				
12	2023/11/03 15:50:02				
13	2023/11/03 15:50:02				
14	2023/11/03 15:50:02				
15	2023/11/03 15:50:02				
16	2023/11/03 15:50:02				
17	2023/11/03 15:50:02				
18	2023/11/03 15:50:02				
19	2023/11/03 15:50:02				
20	2023/11/03 15:50:02				
21	2023/11/03 15:50:02				
22	2023/11/03 15:50:02				
23	2023/11/03 15:50:02				
24	2023/11/03 15:50:02				
25	2023/11/03 15:50:02				
26	2023/11/03 15:50:02				
27	2023/11/03 15:50:02				
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29	2023/11/03 15:50:02				
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40	2023/11/03 15:50:02				
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42	2023/11/03 15:50:02				
43	2023/11/03 15:50:02				
44	2023/11/03 15:50:02				
45	2023/11/03 15:50:02				
46	2023/11/03 15:50:02				
47	2023/11/03 15:50:02				
48	2023/11/03 15:50:02				
49	2023/11/03 15:50:02				
50	2023/11/03 15:50:02				

2023/11/03 15:50:02



Analytical Laboratory Report

Report ID: S54685.01(01)
Generated on 10/19/2023

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

Additional Contacts: Megan Humphrey, Joey Barker, Micki Maki, Chris Peters

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 Lavery (johnlavery@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S54685.01-S54685.05
Project: 30174223.01931
Collected Date(s): 10/18/2023
Submitted Date/Time: 10/18/2023 16:25
Sampled by: Donald Richmond
P.O. #: 30174223.01931

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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.

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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.

All accreditations/certifications held by this laboratory are listed on page 3. Not all accreditations/certifications are applicable to this report.

Report Narrative

There is no additional narrative for this analytical report



Analytical Laboratory Report

Laboratory Accreditations

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:2017	#69699 PJLA Testing
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
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



Analytical Laboratory Report

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



Analytical Laboratory Report

Sample Summary (5 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54685.01	CC-83/84-01_101823	Solid	10/18/23 13:30
S54685.02	CC-83/84-02_101823	Solid	10/18/23 13:55
S54685.03	CC-83/84-03_101823	Solid	10/18/23 14:10
S54685.04	CC-83/84-05_101823	Solid	10/18/23 14:35
S54685.05	CC-83/84-06_101823	Solid	10/18/23 14:45



Analytical Laboratory Report

Lab Sample ID: S54685.01

Sample Tag: CC-83/84-01_101823

Collected Date/Time: 10/18/2023 13:30

Matrix: Solid

COC Reference: 168017

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	10/19/23 10:00	DJS	

Inorganics

Method: SM2540B, Run Date: 10/18/23 19:46, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	97	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/19/23 14:57, 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	



Analytical Laboratory Report

Lab Sample ID: S54685.02

Sample Tag: CC-83/84-02_101823

Collected Date/Time: 10/18/2023 13:55

Matrix: Solid

COC Reference: 168017

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	10/19/23 10:00	DJS	

Inorganics

Method: SM2540B, Run Date: 10/18/23 19:46, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	97	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/19/23 15:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	5	12674-11-2	
PCB-1242	400	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	



Analytical Laboratory Report

Lab Sample ID: S54685.03

Sample Tag: CC-83/84-03_101823

Collected Date/Time: 10/18/2023 14:10

Matrix: Solid

COC Reference: 168017

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	10/19/23 10:00	DJS	

Inorganics

Method: SM2540B, Run Date: 10/18/23 19:46, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	96	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/19/23 15:25, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	15	12674-11-2	
PCB-1242	1,300	330		ug/kg	15	53469-21-9	
PCB-1221	Not detected	330		ug/kg	15	11104-28-2	
PCB-1232	Not detected	330		ug/kg	15	11141-16-5	
PCB-1248	Not detected	330		ug/kg	15	12672-29-6	
PCB-1254	Not detected	330		ug/kg	15	11097-69-1	
PCB-1260	Not detected	330		ug/kg	15	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S54685.04

Sample Tag: CC-83/84-05_101823

Collected Date/Time: 10/18/2023 14:35

Matrix: Solid

COC Reference: 168017

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	10/19/23 10:00	DJS	

Inorganics

Method: SM2540B, Run Date: 10/18/23 19:46, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	96	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/19/23 15:55, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	100	12674-11-2	Y
PCB-1242	8,000	1,000		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	100	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S54685.05

Sample Tag: CC-83/84-06_101823

Collected Date/Time: 10/18/2023 14:45

Matrix: Solid

COC Reference: 168017

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	10/19/23 10:00	DJS	

Inorganics

Method: SM2540B, Run Date: 10/18/23 19:46, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	96	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/19/23 16:07, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	1	12674-11-2	Y
PCB-1242	10,000	1,000		ug/kg	1	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	1	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	1	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	1	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	1	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	1	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Merit Laboratories Login Checklist

Lab Set ID:S54685

Client:ARCADIS_NOVI (ARCADIS U.S., Inc.)

Project: 30174223.01931

Submitted: 10/18/2023 16:25 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.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Samples are received at 4C +/- 2C Thermometer # IR 4.0
02.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Received on ice/ cooling process begun
03.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples shipped
04.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples left in 24 hr. drop box
05.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Are there custody seals/tape or is the drop box locked
Chain of Custody		
06.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	COC adequately filled out
07.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	COC signed and relinquished to the lab
08.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sample tag on bottles match COC
09.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Subcontracting needed? Subcontracted to:
Preservation		
10.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Do sample have correct chemical preservation
11.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Completed pH checks on preserved samples? (no VOAs)
12.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Did any samples need to be preserved in the lab?
Bottle Conditions		
13.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	All bottles intact
14.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Appropriate analytical bottles are used
15.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Merit bottles used
16.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sufficient sample volume received
17.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples require laboratory filtration
18.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Samples submitted within holding time
19.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: _____



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

168017

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Joey Barner
 COMPANY: Arcadis
 ADDRESS: 28550 Cabot Drive, Suite 500
 CITY: _____ STATE: MI ZIP CODE: 48377
 PHONE NO. 248 7905218 CELL NO. _____ P.O. NO. _____
 E-MAIL ADDRESS: Joey.barner@arcadis.com QUOTE NO. _____

CONTACT NAME: SAME
 COMPANY: _____
 ADDRESS: _____
 CITY: _____ STATE: _____ ZIP CODE: _____
 PHONE NO. _____ E-MAIL ADDRESS: _____

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME: 3017422301931 SAMPLER(S) - PLEASE PRINT/SIGN NAME: Donald Richmond / D. Ri
 TURNAROUND TIME REQUIRED: 1 DAY 2 DAYS 3 DAYS STANDARD OTHER _____
 DELIVERABLES REQUIRED: STD LEVEL II LEVEL III LEVEL IV EDD OTHER _____

Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other _____
 Special Instructions

MATRIX W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 CODE: SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

Containers & Preservatives

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	COLLECTION		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER
	DATE	TIME										
<u>5468521</u>	<u>10/18/23</u>	<u>1330</u>	<u>CC-83/84-01-101823</u>	<u>SD</u>	<u>1</u>	<input checked="" type="checkbox"/>						
<u>02</u>	<u>10/18/23</u>	<u>1355</u>	<u>CC-83/84-02-101823</u>	<u>SD</u>	<u>1</u>	<input checked="" type="checkbox"/>						
<u>03</u>	<u>10/18/23</u>	<u>1410</u>	<u>CC-83/84-03-101823</u>	<u>SD</u>	<u>1</u>	<input checked="" type="checkbox"/>						
<u>04</u>	<u>10/18/23</u>	<u>1435</u>	<u>CC-83/84-05-101823</u>	<u>SD</u>	<u>1</u>	<input checked="" type="checkbox"/>						
<u>05</u>	<u>10/18/23</u>	<u>1445</u>	<u>CC-83/84-06-101823</u>	<u>SD</u>	<u>1</u>	<input checked="" type="checkbox"/>						

PCBS

RELINQUISHED BY: Donald Richmond / Arcadis Sampler DATE: 10/18/23 TIME: 1535
 RECEIVED BY: Rayna Mills DATE: 10/18/23 TIME: 1531
 RELINQUISHED BY: Joey Barner DATE: 10/18/23 TIME: 10:25
 RECEIVED BY: [Signature] DATE: 10/18/23 TIME: 1025

RELINQUISHED BY: _____ DATE: _____ TIME: _____
 RECEIVED BY: _____ 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



Analytical Laboratory Report

Report ID: S54847.01(01)
Generated on 10/23/2023

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

Additional Contacts: Megan Humphrey, Joey Barker, Micki Maki, Chris Peters

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 Lavery (johnlavery@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S54847.01-S54847.06
Project: 30174223
Collected Date(s): 10/20/2023
Submitted Date/Time: 10/20/2023 16:55
Sampled by: Unknown
P.O. #: 30174223

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Maya Murshak
Technical Director



Analytical Laboratory Report

General Report Notes

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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.

All accreditations/certifications held by this laboratory are listed on page 3. Not all accreditations/certifications are applicable to this report.

Report Narrative

There is no additional narrative for this analytical report



Analytical Laboratory Report

Laboratory Accreditations

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:2017	#69699 PJLA Testing
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
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



Analytical Laboratory Report

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



Analytical Laboratory Report

Sample Summary (6 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54847.01	CC-83/84-07	Solid	10/20/23 12:56
S54847.02	CC-83/84-08	Solid	10/20/23 13:16
S54847.03	CC-83/84-09	Solid	10/20/23 13:28
S54847.04	CC-83/84-10	Solid	10/20/23 13:44
S54847.05	CC-83/84-11	Solid	10/20/23 13:54
S54847.06	WB-83/84-07	Solid	10/20/23 14:05



Analytical Laboratory Report

Lab Sample ID: S54847.01

Sample Tag: CC-83/84-07

Collected Date/Time: 10/20/2023 12:56

Matrix: Solid

COC Reference: 155535

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	No	15.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/21/23 16:30	DJS	

Inorganics

Method: SM2540B, Run Date: 10/21/23 08:30, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/23/23 13:42, 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	



Analytical Laboratory Report

Lab Sample ID: S54847.02

Sample Tag: CC-83/84-08

Collected Date/Time: 10/20/2023 13:16

Matrix: Solid

COC Reference: 155535

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	No	15.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/21/23 16:30	DJS	

Inorganics

Method: SM2540B, Run Date: 10/21/23 08:30, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	92	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/23/23 14:01, 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	



Analytical Laboratory Report

Lab Sample ID: S54847.03

Sample Tag: CC-83/84-09

Collected Date/Time: 10/20/2023 13:28

Matrix: Solid

COC Reference: 155535

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	No	15.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/21/23 16:30	DJS	

Inorganics

Method: SM2540B, Run Date: 10/21/23 08:30, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	94	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/23/23 14:32, 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	700	330		ug/kg	10	12672-29-6	
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: S54847.04

Sample Tag: CC-83/84-10

Collected Date/Time: 10/20/2023 13:44

Matrix: Solid

COC Reference: 155535

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	No	15.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/21/23 16:30	DJS	

Inorganics

Method: SM2540B, Run Date: 10/21/23 08:30, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	92	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/23/23 14:57, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	20	12674-11-2	
PCB-1242	1,300	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	



Analytical Laboratory Report

Lab Sample ID: S54847.05

Sample Tag: CC-83/84-11

Collected Date/Time: 10/20/2023 13:54

Matrix: Solid

COC Reference: 155535

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	No	15.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/21/23 16:30	DJS	

Inorganics

Method: SM2540B, Run Date: 10/21/23 08:30, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/23/23 15:16, 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	



Analytical Laboratory Report

Lab Sample ID: S54847.06

Sample Tag: WB-83/84-07

Collected Date/Time: 10/20/2023 14:05

Matrix: Solid

COC Reference: 155535

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	No	15.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/21/23 16:30	DJS	

Inorganics

Method: SM2540B, Run Date: 10/21/23 08:30, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/23/23 16:00, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	5	12674-11-2	
PCB-1242	Not detected	1,000		ug/kg	5	53469-21-9	
PCB-1221	Not detected	1,000		ug/kg	5	11104-28-2	
PCB-1232	Not detected	1,000		ug/kg	5	11141-16-5	
PCB-1248	Not detected	1,000		ug/kg	5	12672-29-6	
PCB-1254	Not detected	1,000		ug/kg	5	11097-69-1	
PCB-1260	Not detected	1,000		ug/kg	5	11096-82-5	

Merit Laboratories Login Checklist

Lab Set ID:S54847

Client:ARCADIS_NOVI (ARCADIS U.S., Inc.)

Project: 30174223

Submitted: 10/20/2023 16:55 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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples are received at 4C +/- 2C Thermometer # 15.1
02.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Received on ice/ cooling process begun
03.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples shipped
04.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples left in 24 hr. drop box
05.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Are there custody seals/tape or is the drop box locked
Chain of Custody		
06.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	COC adequately filled out
07.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	COC signed and relinquished to the lab
08.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sample tag on bottles match COC
09.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Subcontracting needed? Subcontracted to:
Preservation		
10.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Do sample have correct chemical preservation
11.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Completed pH checks on preserved samples? (no VOAs)
12.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Did any samples need to be preserved in the lab?
Bottle Conditions		
13.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	All bottles intact
14.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Appropriate analytical bottles are used
15.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Merit bottles used
16.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sufficient sample volume received
17.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples require laboratory filtration
18.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Samples submitted within holding time
19.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: _____



Analytical Laboratory Report

Report ID: S55435.01(01)
Generated on 11/07/2023

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

Additional 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 Lavery (johnlavery@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S55435.01-S55435.32
Project: Racer Buick City / 30172204.00001
Collected Date(s): 11/06/2023
Submitted Date/Time: 11/06/2023 15:40
Sampled by: Richmond / Guy / Olender
P.O. #: 30172204.00001

Table of Contents

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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).

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.

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Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

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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.

All accreditations/certifications held by this laboratory are listed on page 3. Not all accreditations/certifications are applicable to this report.

For a specific list of accredited analytes, please feel free to contact the laboratory or visit <https://www.meritlabs.com/certifications>.

Report Narrative

There is no additional narrative for this analytical report



Analytical Laboratory Report

Laboratory Accreditations

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:2017	#69699 PJLA Testing
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

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X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
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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



Analytical Laboratory Report

Method Summary

Method	Version
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007



Analytical Laboratory Report

Sample Summary (32 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S55435.01	CC-83/84-48_110623	Solid	11/06/23 10:15
S55435.02	CC-83/84-49_110623	Solid	11/06/23 10:25
S55435.03	CC-83/84-50_110623	Solid	11/06/23 10:30
S55435.04	CC-83/84-51_110623	Solid	11/06/23 10:35
S55435.05	CC-83/84-52_110623	Solid	11/06/23 10:40
S55435.06	CC-83/84-53_110623	Solid	11/06/23 10:45
S55435.07	CC-83/84-54_110623	Solid	11/06/23 10:50
S55435.08	CC-83/84-55_110623	Solid	11/06/23 10:55
S55435.09	CC-83/84-56_110623	Solid	11/06/23 11:00
S55435.10	CC-83/84-57_110623	Solid	11/06/23 11:10
S55435.11	CC-83/84-58_110623	Solid	11/06/23 11:25
S55435.12	CC-83/84-45_110623	Solid	11/06/23 12:35
S55435.13	CC-83/84-46_110623	Solid	11/06/23 12:40
S55435.14	CC-83/84-44_110623	Solid	11/06/23 12:45
S55435.15	CC-83/84-43_110623	Solid	11/06/23 12:50
S55435.16	CC-83/84-42_110623	Solid	11/06/23 12:55
S55435.17	CC-83/84-41_110623	Solid	11/06/23 13:00
S55435.18	CC-83/84-40_110623	Solid	11/06/23 13:05
S55435.19	CC-83/84-39_110623	Solid	11/06/23 13:10
S55435.20	CC-83/84-38_110623	Solid	11/06/23 13:15
S55435.21	CC-83/84-37_110623	Solid	11/06/23 13:20
S55435.22	CC-83/84-47_110623	Solid	11/06/23 13:25
S55435.23	CC-83/84-81_110623	Solid	11/06/23 13:30
S55435.24	CC-83/84-80_110623	Solid	11/06/23 13:35
S55435.25	CC-83/84-79_110623	Solid	11/06/23 14:00
S55435.26	CC-83/84-78_110623	Solid	11/06/23 14:05
S55435.27	CC-83/84-82_110623	Solid	11/06/23 14:20
S55435.28	CC-83/84-83_110623	Solid	11/06/23 14:25
S55435.29	CC-83/84-84_110623	Solid	11/06/23 14:30
S55435.30	CC-83/84-85_110623	Solid	11/06/23 14:40
S55435.31	CC-83/84-86_110623	Solid	11/06/23 14:45
S55435.32	CC-83/84-87_110623	Solid	11/06/23 14:55



Analytical Laboratory Report

Lab Sample ID: S55435.01

Sample Tag: CC-83/84-48_110623

Collected Date/Time: 11/06/2023 10:15

Matrix: Solid

COC Reference: 165045

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 12:56, 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	



Analytical Laboratory Report

Lab Sample ID: S55435.02

Sample Tag: CC-83/84-49_110623

Collected Date/Time: 11/06/2023 10:25

Matrix: Solid

COC Reference: 165045

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 13:08, 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	



Analytical Laboratory Report

Lab Sample ID: S55435.03

Sample Tag: CC-83/84-50_110623

Collected Date/Time: 11/06/2023 10:30

Matrix: Solid

COC Reference: 165045

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 13:23, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	15	12674-11-2	
PCB-1242	Not detected	330		ug/kg	15	53469-21-9	
PCB-1221	Not detected	330		ug/kg	15	11104-28-2	
PCB-1232	Not detected	330		ug/kg	15	11141-16-5	
PCB-1248	800	330		ug/kg	15	12672-29-6	
PCB-1254	Not detected	330		ug/kg	15	11097-69-1	
PCB-1260	Not detected	330		ug/kg	15	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S55435.04

Sample Tag: CC-83/84-51_110623

Collected Date/Time: 11/06/2023 10:35

Matrix: Solid

COC Reference: 165045

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 13:38, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	15	12674-11-2	
PCB-1242	Not detected	330		ug/kg	15	53469-21-9	
PCB-1221	Not detected	330		ug/kg	15	11104-28-2	
PCB-1232	Not detected	330		ug/kg	15	11141-16-5	
PCB-1248	Not detected	330		ug/kg	15	12672-29-6	
PCB-1254	1,200	330		ug/kg	15	11097-69-1	
PCB-1260	Not detected	330		ug/kg	15	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S55435.05

Sample Tag: CC-83/84-52_110623

Collected Date/Time: 11/06/2023 10:40

Matrix: Solid

COC Reference: 165045

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 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	330	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S55435.06

Sample Tag: CC-83/84-53_110623

Collected Date/Time: 11/06/2023 10:45

Matrix: Solid

COC Reference: 165045

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 14:08, 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	



Analytical Laboratory Report

Lab Sample ID: S55435.07

Sample Tag: CC-83/84-54_110623

Collected Date/Time: 11/06/2023 10:50

Matrix: Solid

COC Reference: 165045

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 14:22, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,500		ug/kg	150	12674-11-2	Y
PCB-1242	Not detected	1,500		ug/kg	150	53469-21-9	Y
PCB-1221	Not detected	1,500		ug/kg	150	11104-28-2	Y
PCB-1232	Not detected	1,500		ug/kg	150	11141-16-5	Y
PCB-1248	Not detected	1,500		ug/kg	150	12672-29-6	Y
PCB-1254	6,000	1,500		ug/kg	150	11097-69-1	Y
PCB-1260	Not detected	1,500		ug/kg	150	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S55435.08

Sample Tag: CC-83/84-55_110623

Collected Date/Time: 11/06/2023 10:55

Matrix: Solid

COC Reference: 165045

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 14:36, 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	400	330		ug/kg	5	11097-69-1	
PCB-1260	Not detected	330		ug/kg	5	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S55435.09

Sample Tag: CC-83/84-56_110623

Collected Date/Time: 11/06/2023 11:00

Matrix: Solid

COC Reference: 165045

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 14:51, 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	



Analytical Laboratory Report

Lab Sample ID: S55435.10

Sample Tag: CC-83/84-57_110623

Collected Date/Time: 11/06/2023 11:10

Matrix: Solid

COC Reference: 165045

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 15:25, 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	



Analytical Laboratory Report

Lab Sample ID: S55435.11

Sample Tag: CC-83/84-58_110623

Collected Date/Time: 11/06/2023 11:25

Matrix: Solid

COC Reference: 165045

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 15:37, 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	



Analytical Laboratory Report

Lab Sample ID: S55435.12

Sample Tag: CC-83/84-45_110623

Collected Date/Time: 11/06/2023 12:35

Matrix: Solid

COC Reference: 165045

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 15:50, 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	



Analytical Laboratory Report

Lab Sample ID: S55435.13

Sample Tag: CC-83/84-46_110623

Collected Date/Time: 11/06/2023 12:40

Matrix: Solid

COC Reference: 165046

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 16:05, 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	



Analytical Laboratory Report

Lab Sample ID: S55435.14

Sample Tag: CC-83/84-44_110623

Collected Date/Time: 11/06/2023 12:45

Matrix: Solid

COC Reference: 165046

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 16:19, 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	



Analytical Laboratory Report

Lab Sample ID: S55435.15

Sample Tag: CC-83/84-43_110623

Collected Date/Time: 11/06/2023 12:50

Matrix: Solid

COC Reference: 165046

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 16:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	25	12674-11-2	
PCB-1242	2,100	330		ug/kg	25	53469-21-9	
PCB-1221	Not detected	330		ug/kg	25	11104-28-2	
PCB-1232	Not detected	330		ug/kg	25	11141-16-5	
PCB-1248	Not detected	330		ug/kg	25	12672-29-6	
PCB-1254	Not detected	330		ug/kg	25	11097-69-1	
PCB-1260	Not detected	330		ug/kg	25	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S55435.16

Sample Tag: CC-83/84-42_110623

Collected Date/Time: 11/06/2023 12:55

Matrix: Solid

COC Reference: 165046

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 16:47, 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	400	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	



Analytical Laboratory Report

Lab Sample ID: S55435.17

Sample Tag: CC-83/84-41_110623

Collected Date/Time: 11/06/2023 13:00

Matrix: Solid

COC Reference: 165046

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 17:01, 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	



Analytical Laboratory Report

Lab Sample ID: S55435.18

Sample Tag: CC-83/84-40_110623

Collected Date/Time: 11/06/2023 13:05

Matrix: Solid

COC Reference: 165046

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 17:16, 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	



Analytical Laboratory Report

Lab Sample ID: S55435.19

Sample Tag: CC-83/84-39_110623

Collected Date/Time: 11/06/2023 13:10

Matrix: Solid

COC Reference: 165046

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 17:35, 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	



Analytical Laboratory Report

Lab Sample ID: S55435.20

Sample Tag: CC-83/84-38_110623

Collected Date/Time: 11/06/2023 13:15

Matrix: Solid

COC Reference: 165046

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/06/23 16:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 17:47, 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	



Analytical Laboratory Report

Lab Sample ID: S55435.21

Sample Tag: CC-83/84-37_110623

Collected Date/Time: 11/06/2023 13:20

Matrix: Solid

COC Reference: 165046

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/07/23 10:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 18:02, 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	



Analytical Laboratory Report

Lab Sample ID: S55435.22

Sample Tag: CC-83/84-47_110623

Collected Date/Time: 11/06/2023 13:25

Matrix: Solid

COC Reference: 165046

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/07/23 10:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/07/23 18:14, 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	330	330		ug/kg	5	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S55435.23

Sample Tag: CC-83/84-81_110623

Collected Date/Time: 11/06/2023 13:30

Matrix: Solid

COC Reference: 165046

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Other / Misc.

Method: , Run Date: 11/07/23 16:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55435.24

Sample Tag: CC-83/84-80_110623

Collected Date/Time: 11/06/2023 13:35

Matrix: Solid

COC Reference: 165046

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Other / Misc.

Method: , Run Date: 11/07/23 16:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55435.25

Sample Tag: CC-83/84-79_110623

Collected Date/Time: 11/06/2023 14:00

Matrix: Solid

COC Reference: 165040

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Other / Misc.

Method: , Run Date: 11/07/23 16:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55435.26

Sample Tag: CC-83/84-78_110623

Collected Date/Time: 11/06/2023 14:05

Matrix: Solid

COC Reference: 165040

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Other / Misc.

Method: , Run Date: 11/07/23 16:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55435.27

Sample Tag: CC-83/84-82_110623

Collected Date/Time: 11/06/2023 14:20

Matrix: Solid

COC Reference: 165040

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Other / Misc.

Method: , Run Date: 11/07/23 16:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55435.28

Sample Tag: CC-83/84-83_110623

Collected Date/Time: 11/06/2023 14:25

Matrix: Solid

COC Reference: 165040

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Other / Misc.

Method: , Run Date: 11/07/23 16:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55435.29

Sample Tag: CC-83/84-84_110623

Collected Date/Time: 11/06/2023 14:30

Matrix: Solid

COC Reference: 165040

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Other / Misc.

Method: , Run Date: 11/07/23 16:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55435.30

Sample Tag: CC-83/84-85_110623

Collected Date/Time: 11/06/2023 14:40

Matrix: Solid

COC Reference: 165040

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Other / Misc.

Method: , Run Date: 11/07/23 16:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55435.31

Sample Tag: CC-83/84-86_110623

Collected Date/Time: 11/06/2023 14:45

Matrix: Solid

COC Reference: 165040

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Other / Misc.

Method: , Run Date: 11/07/23 16:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55435.32

Sample Tag: CC-83/84-87_110623

Collected Date/Time: 11/06/2023 14:55

Matrix: Solid

COC Reference: 165040

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	6.0	IR

Other / Misc.

Method: , Run Date: 11/07/23 16:58, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Merit Laboratories Login Checklist

Lab Set ID:S55435

Client:ARCADIS_NOVI (ARCADIS U.S., Inc.)

Project: Racer Buick City / 30172204.00001

Submitted: 11/06/2023 15:40 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.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Samples are received at 4C +/- 2C Thermometer # IR 6.0
02.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Received on ice/ cooling process begun
03.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples shipped
04.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples left in 24 hr. drop box
05.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Are there custody seals/tape or is the drop box locked
Chain of Custody		
06.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	COC adequately filled out
07.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	COC signed and relinquished to the lab
08.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sample tag on bottles match COC
09.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Subcontracting needed? Subcontracted to:
Preservation		
10.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Do sample have correct chemical preservation
11.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Completed pH checks on preserved samples? (no VOAs)
12.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Did any samples need to be preserved in the lab?
Bottle Conditions		
13.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	All bottles intact
14.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Appropriate analytical bottles are used
15.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Merit bottles used
16.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sufficient sample volume received
17.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples require laboratory filtration
18.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Samples submitted within holding time
19.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: _____



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 165045

REPORT TO **CHAIN OF CUSTODY RECORD** **INVOICE TO**

CONTACT NAME Joey Barker
 COMPANY Arcadis
 ADDRESS 28550 Cabot Dr #500
 CITY Novi STATE MI ZIP CODE 48377
 PHONE NO. _____ CELL NO. _____ P.O. NO. _____
 E-MAIL ADDRESS Joey.barker@arcadis.com
christopher.peters@arcadis.com QUOTE NO. _____

CONTACT NAME Accounts Payable SAME
 COMPANY Arcadis
 ADDRESS 630 Plaza Dr #600
 CITY Highlands Ranch STATE CO ZIP CODE 80129
 PHONE NO. _____ E-MAIL ADDRESS accounts.payable.administration@arcadis.com

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Racer Buck City / 30172204.00001 SAMPLER(S) - PLEASE PRINT/SIGN NAME Donnie Richmond / Sommer Guy / Madison Olenick
 TURNAROUND TIME REQUIRED DAY 2 DAYS 3 DAYS STANDARD OTHER _____
 DELIVERABLES REQUIRED STD LEVEL II LEVEL III LEVEL IV EDD OTHER _____

Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other _____
 Special Instructions

MATRIX W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 CODE: SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIFE A=AIR WS=WASTE

Containers & Preservatives

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	COLLECTION		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	PCB's
	DATE	TIME											
55435.01	11/6/23	1015	CC-83/84-48-110623	SD	1	X							X
.02		1025	CC-83/84-49-110623										X
.03		1030	CC-83/84-50-110623										X
.04		1035	CC-83/84-51-110623										X
.05		1040	CC-83/84-52-110623										X
.06		1045	CC-83/84-53-110623										X
.07		1050	CC-83/84-54-110623										X
.08		1055	CC-83/84-55-110623										X
.09		1100	CC-83/84-56-110623										X
.10		1110	CC-83/84-57-110623										X
.11		1125	CC-83/84-58-110623										X
.12		1235	CC-83/84-45-110623										X

RELINQUISHED BY: Sommer Guy / Arcadis Sampler DATE 11/6/23 TIME 1500
 RECEIVED BY: Donnie Richmond DATE 11/6/23 TIME 15:00
 RELINQUISHED BY: M. Olenick DATE 11/6/23 TIME 15:40
 RECEIVED BY: M. Olenick DATE 11/6/23 TIME 1540

RELINQUISHED BY: _____ DATE _____ TIME _____
 RECEIVED BY: _____ DATE _____ TIME _____
 SEAL NO. SEAL INTACT YES NO INITIALS _____ NOTES: TEMP. ON ARRIVAL 6.0
 SEAL NO. SEAL INTACT YES NO INITIALS _____



Analytical Laboratory Report

Report ID: S55487.01(01)
Generated on 11/09/2023

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

Additional 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 Lavery (johnlavery@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S55487.01-S55487.19
Project: Racer Buick City / 30172204.00001
Collected Date(s): 11/06/2023
Submitted Date/Time: 11/07/2023 15:55
Sampled by: Richmond / Olender
P.O. #: 30172204.00001

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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.

All accreditations/certifications held by this laboratory are listed on page 3. Not all accreditations/certifications are applicable to this report.

For a specific list of accredited analytes, please feel free to contact the laboratory or visit <https://www.meritlabs.com/certifications>.

Report Narrative

There is no additional narrative for this analytical report



Analytical Laboratory Report

Laboratory Accreditations

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:2017	#69699 PJLA Testing
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
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



Analytical Laboratory Report

Method Summary

Method	Version
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007



Analytical Laboratory Report

Sample Summary (19 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S55487.01	CC-83/84-75_110623	Solid	11/06/23 15:10
S55487.02	CC-83/84-74_110623	Solid	11/06/23 15:15
S55487.03	CC-83/84-73_110623	Solid	11/06/23 15:20
S55487.04	CC-83/84-72_110623	Solid	11/06/23 15:25
S55487.05	CC-83/84-71_110623	Solid	11/06/23 15:30
S55487.06	CC-83/84-70_110623	Solid	11/06/23 15:35
S55487.07	CC-83/84-69_110623	Solid	11/06/23 15:40
S55487.08	CC-83/84-68_110623	Solid	11/06/23 15:45
S55487.09	CC-83/84-67_110623	Solid	11/06/23 15:50
S55487.10	CC-83/84-65_110623	Solid	11/06/23 15:55
S55487.11	CC-83/84-66_110623	Solid	11/06/23 16:00
S55487.12	CC-83/84-64_110623	Solid	11/06/23 16:05
S55487.13	CC-83/84-63_110623	Solid	11/06/23 16:10
S55487.14	CC-83/84-62_110623	Solid	11/06/23 16:15
S55487.15	CC-83/84-61_110623	Solid	11/06/23 16:20
S55487.16	CC-83/84-60_110623	Solid	11/06/23 16:22
S55487.17	CC-83/84-59_110623	Solid	11/06/23 16:25
S55487.18	CC-83/84-77_110623	Solid	11/06/23 16:30
S55487.19	CC-83/84-76_110623	Solid	11/06/23 16:35



Analytical Laboratory Report

Lab Sample ID: S55487.01

Sample Tag: CC-83/84-75_110623

Collected Date/Time: 11/06/2023 15:10

Matrix: Solid

COC Reference: 165041

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Other / Misc.

Method: , Run Date: 11/09/23 09:00, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55487.02

Sample Tag: CC-83/84-74_110623

Collected Date/Time: 11/06/2023 15:15

Matrix: Solid

COC Reference: 165041

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Other / Misc.

Method: , Run Date: 11/09/23 09:00, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55487.03

Sample Tag: CC-83/84-73_110623

Collected Date/Time: 11/06/2023 15:20

Matrix: Solid

COC Reference: 165041

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Other / Misc.

Method: , Run Date: 11/09/23 09:00, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55487.04

Sample Tag: CC-83/84-72_110623

Collected Date/Time: 11/06/2023 15:25

Matrix: Solid

COC Reference: 165041

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/08/23 10:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/09/23 11:03, Analyst: ELR

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	



Analytical Laboratory Report

Lab Sample ID: S55487.05

Sample Tag: CC-83/84-71_110623

Collected Date/Time: 11/06/2023 15:30

Matrix: Solid

COC Reference: 165041

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/08/23 10:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/09/23 11:15, Analyst: ELR

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	



Analytical Laboratory Report

Lab Sample ID: S55487.06

Sample Tag: CC-83/84-70_110623

Collected Date/Time: 11/06/2023 15:35

Matrix: Solid

COC Reference: 165041

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Other / Misc.

Method: , Run Date: 11/09/23 09:00, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55487.07

Sample Tag: CC-83/84-69_110623

Collected Date/Time: 11/06/2023 15:40

Matrix: Solid

COC Reference: 165041

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Other / Misc.

Method: , Run Date: 11/09/23 09:00, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55487.08

Sample Tag: CC-83/84-68_110623

Collected Date/Time: 11/06/2023 15:45

Matrix: Solid

COC Reference: 165041

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Other / Misc.

Method: , Run Date: 11/09/23 09:00, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55487.09

Sample Tag: CC-83/84-67_110623

Collected Date/Time: 11/06/2023 15:50

Matrix: Solid

COC Reference: 165041

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Other / Misc.

Method: , Run Date: 11/09/23 09:00, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55487.10

Sample Tag: CC-83/84-65_110623

Collected Date/Time: 11/06/2023 15:55

Matrix: Solid

COC Reference: 165041

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/08/23 10:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/09/23 11:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	15	12674-11-2	
PCB-1242	Not detected	330		ug/kg	15	53469-21-9	
PCB-1221	Not detected	330		ug/kg	15	11104-28-2	
PCB-1232	Not detected	330		ug/kg	15	11141-16-5	
PCB-1248	Not detected	330		ug/kg	15	12672-29-6	
PCB-1254	650	330		ug/kg	15	11097-69-1	
PCB-1260	Not detected	330		ug/kg	15	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S55487.11

Sample Tag: CC-83/84-66_110623

Collected Date/Time: 11/06/2023 16:00

Matrix: Solid

COC Reference: 165041

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Other / Misc.

Method: , Run Date: 11/09/23 09:00, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55487.12

Sample Tag: CC-83/84-64_110623

Collected Date/Time: 11/06/2023 16:05

Matrix: Solid

COC Reference: 165041

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/08/23 10:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/09/23 11:52, Analyst: ELR

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	



Analytical Laboratory Report

Lab Sample ID: S55487.13

Sample Tag: CC-83/84-63_110623

Collected Date/Time: 11/06/2023 16:10

Matrix: Solid

COC Reference: 165067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/08/23 10:30	JWR	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/09/23 12:30, Analyst: ELR

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	



Analytical Laboratory Report

Lab Sample ID: S55487.14

Sample Tag: CC-83/84-62_110623

Collected Date/Time: 11/06/2023 16:15

Matrix: Solid

COC Reference: 165067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Other / Misc.

Method: , Run Date: 11/09/23 09:00, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55487.15

Sample Tag: CC-83/84-61_110623

Collected Date/Time: 11/06/2023 16:20

Matrix: Solid

COC Reference: 165067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Other / Misc.

Method: , Run Date: 11/09/23 09:00, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55487.16

Sample Tag: CC-83/84-60_110623

Collected Date/Time: 11/06/2023 16:22

Matrix: Solid

COC Reference: 165067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Other / Misc.

Method: , Run Date: 11/09/23 09:00, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55487.17

Sample Tag: CC-83/84-59_110623

Collected Date/Time: 11/06/2023 16:25

Matrix: Solid

COC Reference: 165067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Other / Misc.

Method: , Run Date: 11/09/23 09:00, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55487.18

Sample Tag: CC-83/84-77_110623

Collected Date/Time: 11/06/2023 16:30

Matrix: Solid

COC Reference: 165067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Other / Misc.

Method: , Run Date: 11/09/23 09:00, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S55487.19

Sample Tag: CC-83/84-76_110623

Collected Date/Time: 11/06/2023 16:35

Matrix: Solid

COC Reference: 165067

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	3.0	IR

Other / Misc.

Method: , Run Date: 11/09/23 09:00, Analyst: JRM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Merit Laboratories Login Checklist

Lab Set ID:S55487

Client:ARCADIS_NOVI (ARCADIS U.S., Inc.)

Project: Racer Buick City / 30172204.00001

Submitted: 11/07/2023 15:55 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.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Samples are received at 4C +/- 2C Thermometer # IR 3.0
02.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Received on ice/ cooling process begun
03.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples shipped
04.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples left in 24 hr. drop box
05.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Are there custody seals/tape or is the drop box locked
Chain of Custody		
06.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	COC adequately filled out
07.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	COC signed and relinquished to the lab
08.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sample tag on bottles match COC
09.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Subcontracting needed? Subcontracted to:
Preservation		
10.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Do sample have correct chemical preservation
11.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Completed pH checks on preserved samples? (no VOAs)
12.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Did any samples need to be preserved in the lab?
Bottle Conditions		
13.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	All bottles intact
14.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Appropriate analytical bottles are used
15.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Merit bottles used
16.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sufficient sample volume received
17.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples require laboratory filtration
18.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Samples submitted within holding time
19.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: _____



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 165041

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Joey Barker
 COMPANY: Arcadis
 ADDRESS: 28550 Cabot Dr #500
 CITY: Novi STATE: MI ZIP CODE: 48377
 PHONE NO.: _____ CELL NO.: _____ P.O. NO.: _____
 E-MAIL ADDRESS: Joey.Barker@arcadis.com
Christopher.Peter@arcadis.com
 QUOTE NO.: _____

CONTACT NAME: Accounts Payable SAME
 COMPANY: Arcadis
 ADDRESS: 630 Plaza Dr #600
 CITY: Highlands Ranch STATE: CO ZIP CODE: 80129
 PHONE NO.: _____ E-MAIL ADDRESS: accounts.payable.administration@arcadis.com

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME: Racer Buick City | 30172204.0000 SAMPLER(S) - PLEASE PRINT/SIGN NAME: Donna Richmond | Madison Olander
 TURNAROUND TIME REQUIRED 1 DAY 2 DAYS 3 DAYS STANDARD OTHER _____
 DELIVERABLES REQUIRED STD LEVEL II LEVEL III LEVEL IV EDD OTHER _____

Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other _____
 Special Instructions

MATRIX W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 CODE: SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

Containers & Preservatives

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	COLLECTION		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	PCBs
	DATE	TIME											
5547.01	11/6/23	1510	CC-83/84-75-110623	SD	1	X							X
.02		1515	CC-83/84-74-110623										X
.03		1520	CC-83/84-73-110623										X
.04		1525	CC-83/84-72-110623										X
.05		1530	CC-83/84-71-110623										X
.06		1535	CC-83/84-70-110623										X
.07		1540	CC-83/84-69-110623										X
.08		1545	CC-83/84-68-110623										X
.09		1550	CC-83/84-67-110623										X
.10		1555	CC-83/84-65-110623										X
.11		1600	CC-83/84-66-110623										X
.12		1605	CC-83/84-64-110623										X

RELINQUISHED BY: [Signature] Arcadis Sampler DATE: 11/7/23 TIME: 1425
 RECEIVED BY: [Signature] DATE: 11/7/23 TIME: 1425
 RELINQUISHED BY: [Signature] DATE: 11/7/23 TIME: 1555
 RECEIVED BY: [Signature] DATE: 11/7/23 TIME: 1555

RELINQUISHED BY: _____ DATE: _____ TIME: _____
 RECEIVED BY: _____ DATE: _____ TIME: _____
 SEAL NO. SEAL INTACT YES NO INITIALS _____ NOTES: TEMP. ON ARRIVAL 3.0
 SEAL NO. SEAL INTACT YES NO INITIALS _____

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Report ID: S55712.01(02)
Generated on 11/17/2023
Replaces report S55712.01(01) generated on 11/16/2023

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

Additional 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 Lavery (johnlavery@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S55712.01-S55712.23
Project: Racer Buick City
Collected Date(s): 11/13/2023
Submitted Date/Time: 11/13/2023 16:30
Sampled by: Madison Olender/DonaldRichmond
P.O. #: 30174223-01908

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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.

All accreditations/certifications held by this laboratory are listed on page 3. Not all accreditations/certifications are applicable to this report.

For a specific list of accredited analytes, please feel free to contact the laboratory or visit <https://www.meritlabs.com/certifications>.

Report Narrative

Sample tag changes per client request



Laboratory Accreditations

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:2017	#69699 PJLA Testing
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
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
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
S55712.01	CC-83/84-89_111323	Solid	11/13/23 10:45
S55712.02	CC-83/84-88_111323	Solid	11/13/23 10:50
S55712.03	CC-83/84-91_111323	Solid	11/13/23 10:55
S55712.04	CC-83/84-90_111323	Solid	11/13/23 11:00
S55712.05	CC-83/84-22(8-12")_111323	Solid	11/13/23 11:20
S55712.06	FLR-044(8-12")_111323	Solid	11/13/23 11:25
S55712.07	CC-83/84-96_111323	Solid	11/13/23 12:00
S55712.08	CC-83/84-97_111323	Solid	11/13/23 12:05
S55712.09	CC-83/84-95_111323	Solid	11/13/23 13:00
S55712.10	CC-83/84-94_111323	Solid	11/13/23 13:05
S55712.11	CC-83/84-93_111323	Solid	11/13/23 13:15
S55712.12	CC-83/84-92_111323	Solid	11/13/23 13:20
S55712.13	CC-83/84-98_111323	Solid	11/13/23 14:15
S55712.14	FLR-092(8-12")_111323	Solid	11/13/23 14:20
S55712.15	CC-83/84-06(8-12")_111323	Solid	11/13/23 14:30
S55712.16	CC-83/84-108_111323	Solid	11/13/23 14:35
S55712.17	CC-83/84-107_111323	Solid	11/13/23 14:45
S55712.18	CC-83/84-106_111323	Solid	11/13/23 14:50
S55712.19	CC-83/84-105_111323	Solid	11/13/23 14:55
S55712.20	CC-83/84-104_111323	Solid	11/13/23 15:05
S55712.21	CC-83/84-101_111323	Solid	11/13/23 15:10
S55712.22	CC-83/84-100_111323	Solid	11/13/23 15:15
S55712.23	CC-83/84-99_111323	Solid	11/13/23 15:20



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.01

Sample Tag: CC-83/84-89_111323

Collected Date/Time: 11/13/2023 10:45

Matrix: Solid

COC Reference: 165066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/16/23 13:29, Analyst: ELR

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	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.02

Sample Tag: CC-83/84-88_111323

Collected Date/Time: 11/13/2023 10:50

Matrix: Solid

COC Reference: 165066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/15/23 13:16, Analyst: ELR

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	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.03

Sample Tag: CC-83/84-91_111323

Collected Date/Time: 11/13/2023 10:55

Matrix: Solid

COC Reference: 165066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/15/23 17:33, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	15	12674-11-2	
PCB-1242	Not detected	330		ug/kg	15	53469-21-9	
PCB-1221	Not detected	330		ug/kg	15	11104-28-2	
PCB-1232	Not detected	330		ug/kg	15	11141-16-5	
PCB-1248	Not detected	330		ug/kg	15	12672-29-6	
PCB-1254	440	330		ug/kg	15	11097-69-1	
PCB-1260	Not detected	330		ug/kg	15	11096-82-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.04

Sample Tag: CC-83/84-90_111323

Collected Date/Time: 11/13/2023 11:00

Matrix: Solid

COC Reference: 165066

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/15/23 14:07, Analyst: ELR

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	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.05

Sample Tag: CC-83/84-22(8-12")_111323

Collected Date/Time: 11/13/2023 11:20

Matrix: Solid

COC Reference: 165022

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/16/23 11:38, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	21,000		ug/kg	2500	12674-11-2	Y
PCB-1242	Not detected	21,000		ug/kg	2500	53469-21-9	Y
PCB-1221	Not detected	21,000		ug/kg	2500	11104-28-2	Y
PCB-1232	Not detected	21,000		ug/kg	2500	11141-16-5	Y
PCB-1248	Not detected	21,000		ug/kg	2500	12672-29-6	Y
PCB-1254	97,000	21,000		ug/kg	2500	11097-69-1	Y
PCB-1260	Not detected	21,000		ug/kg	2500	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.06

Sample Tag: FLR-044(8-12")_111323

Collected Date/Time: 11/13/2023 11:25

Matrix: Solid

COC Reference: 165022

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/15/23 17:57, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	50	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	50	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	50	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	50	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	50	12672-29-6	Y
PCB-1254	1,600	500		ug/kg	50	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	50	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.07

Sample Tag: CC-83/84-96_111323

Collected Date/Time: 11/13/2023 12:00

Matrix: Solid

COC Reference: 165022

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/15/23 15:02, Analyst: ELR

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	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.08

Sample Tag: CC-83/84-97_111323

Collected Date/Time: 11/13/2023 12:05

Matrix: Solid

COC Reference: 165022

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/16/23 10:15, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	50	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	50	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	50	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	50	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	50	12672-29-6	Y
PCB-1254	3,100	500		ug/kg	50	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	50	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.09

Sample Tag: CC-83/84-95_111323

Collected Date/Time: 11/13/2023 13:00

Matrix: Solid

COC Reference: 165022

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/15/23 15:14, Analyst: ELR

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	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.10

Sample Tag: CC-83/84-94_111323

Collected Date/Time: 11/13/2023 13:05

Matrix: Solid

COC Reference: 165022

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/15/23 15:33, Analyst: ELR

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	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.11

Sample Tag: CC-83/84-93_111323

Collected Date/Time: 11/13/2023 13:15

Matrix: Solid

COC Reference: 165022

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/15/23 15:44, Analyst: ELR

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	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.12

Sample Tag: CC-83/84-92_111323

Collected Date/Time: 11/13/2023 13:20

Matrix: Solid

COC Reference: 165022

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/15/23 15:56, Analyst: ELR

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	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.13

Sample Tag: CC-83/84-98_111323

Collected Date/Time: 11/13/2023 14:15

Matrix: Solid

COC Reference: 165022

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/15/23 16:08, Analyst: ELR

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	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.14

Sample Tag: FLR-092(8-12")_111323

Collected Date/Time: 11/13/2023 14:20

Matrix: Solid

COC Reference: 165022

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/15/23 16:20, Analyst: ELR

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	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.15

Sample Tag: CC-83/84-06(8-12")_111323

Collected Date/Time: 11/13/2023 14:30

Matrix: Solid

COC Reference: 165022

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/16/23 10:57, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,000		ug/kg	100	12674-11-2	Y
PCB-1242	6,000	1,000		ug/kg	100	53469-21-9	Y
PCB-1221	Not detected	1,000		ug/kg	100	11104-28-2	Y
PCB-1232	Not detected	1,000		ug/kg	100	11141-16-5	Y
PCB-1248	Not detected	1,000		ug/kg	100	12672-29-6	Y
PCB-1254	Not detected	1,000		ug/kg	100	11097-69-1	Y
PCB-1260	Not detected	1,000		ug/kg	100	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.16

Sample Tag: CC-83/84-108_111323

Collected Date/Time: 11/13/2023 14:35

Matrix: Solid

COC Reference: 165022

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/15/23 17:45, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	15	12674-11-2	
PCB-1242	Not detected	330		ug/kg	15	53469-21-9	
PCB-1221	Not detected	330		ug/kg	15	11104-28-2	
PCB-1232	Not detected	330		ug/kg	15	11141-16-5	
PCB-1248	1,100	330		ug/kg	15	12672-29-6	
PCB-1254	Not detected	330		ug/kg	15	11097-69-1	
PCB-1260	Not detected	330		ug/kg	15	11096-82-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.17

Sample Tag: CC-83/84-107_111323

Collected Date/Time: 11/13/2023 14:45

Matrix: Solid

COC Reference: 165021

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/15/23 16:32, Analyst: ELR

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	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.18

Sample Tag: CC-83/84-106_111323

Collected Date/Time: 11/13/2023 14:50

Matrix: Solid

COC Reference: 165021

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/15/23 16:44, Analyst: ELR

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	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.19

Sample Tag: CC-83/84-105_111323

Collected Date/Time: 11/13/2023 14:55

Matrix: Solid

COC Reference: 165021

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/15/23 16:56, Analyst: ELR

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	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.20

Sample Tag: CC-83/84-104_111323

Collected Date/Time: 11/13/2023 15:05

Matrix: Solid

COC Reference: 165021

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 11:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/15/23 17:08, Analyst: ELR

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	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.21

Sample Tag: CC-83/84-101_111323

Collected Date/Time: 11/13/2023 15:10

Matrix: Solid

COC Reference: 165021

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 14:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/16/23 12:26, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	790	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
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

Revised Report

Lab Sample ID: S55712.22

Sample Tag: CC-83/84-100_111323

Collected Date/Time: 11/13/2023 15:15

Matrix: Solid

COC Reference: 165021

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 14:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/16/23 12:59, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	15	12674-11-2	
PCB-1242	530	330		ug/kg	15	53469-21-9	
PCB-1221	Not detected	330		ug/kg	15	11104-28-2	
PCB-1232	Not detected	330		ug/kg	15	11141-16-5	
PCB-1248	Not detected	330		ug/kg	15	12672-29-6	
PCB-1254	Not detected	330		ug/kg	15	11097-69-1	
PCB-1260	Not detected	330		ug/kg	15	11096-82-5	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S55712.23

Sample Tag: CC-83/84-99_111323

Collected Date/Time: 11/13/2023 15:20

Matrix: Solid

COC Reference: 165021

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	19.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/14/23 14:30	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/16/23 13:41, Analyst: ELR

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	

Merit Laboratories Login Checklist

Lab Set ID:S55712

Client:ARCADIS_NOVI (ARCADIS U.S., Inc.)

Project: Racer Buick City

Submitted: 11/13/2023 16:30 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. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples are received at 4C +/- 2C Thermometer # IR 19.8 |
| 02. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Received on ice/ cooling process begun |
| 03. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples shipped |
| 04. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples left in 24 hr. drop box |
| 05. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Are there custody seals/tape or is the drop box locked |

Chain of Custody

- | | | |
|-----|--|--|
| 06. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | COC adequately filled out |
| 07. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | COC signed and relinquished to the lab |
| 08. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Sample tag on bottles match COC |
| 09. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Subcontracting needed? Subcontracted to: |

Preservation

- | | | |
|-----|--|---|
| 10. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Do sample have correct chemical preservation |
| 11. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Completed pH checks on preserved samples? (no VOAs) |
| 12. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Did any samples need to be preserved in the lab? |

Bottle Conditions

- | | | |
|-----|--|---|
| 13. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | All bottles intact |
| 14. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Appropriate analytical bottles are used |
| 15. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Merit bottles used |
| 16. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Sufficient sample volume received |
| 17. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples require laboratory filtration |
| 18. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Samples submitted within holding time |
| 19. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: _____



Analytical Laboratory Report

Report ID: S56370.01(01)
Generated on 12/06/2023

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

Additional 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 Lavery (johnlavery@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S56370.01-S56370.08
Project: 30174223.01908
Collected Date(s): 12/04/2023
Submitted Date/Time: 12/05/2023 10:15
Sampled by: Donald Richmond
P.O. #: 30174223.01908

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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.

Starred (*) analytes are not NY 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.

All accreditations/certifications held by this laboratory are listed on page 3. Not all accreditations/certifications are applicable to this report.

For a specific list of accredited analytes, please feel free to contact the laboratory or visit <https://www.meritlabs.com/certifications>.

Report Narrative

There is no additional narrative for this analytical report



Analytical Laboratory Report

Laboratory Accreditations (For Reference Only)

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:2017	#69699 PJLA Testing
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
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



Analytical Laboratory Report

Method Summary

Method	Version
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007



Analytical Laboratory Report

Sample Summary (8 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S56370.01	CC-83/84-111(0-1")_120423	Solid	12/04/23 13:00
S56370.02	CC-83/84-111(5-8")_120423	Solid	12/04/23 13:20
S56370.03	CC-83/84-110(0-1")_120423	Solid	12/04/23 14:00
S56370.04	CC-83/84-110(5-8")_120423	Solid	12/04/23 14:15
S56370.05	CC-83/84-112(0-1")_120423	Solid	12/04/23 15:10
S56370.06	CC-83/84-112(5-8")_120423	Solid	12/04/23 15:20
S56370.07	CC-83/84-109(0-1")_120423	Solid	12/04/23 15:25
S56370.08	CC-83/84-109(8-12")_120423	Solid	12/04/23 15:30



Analytical Laboratory Report

Lab Sample ID: S56370.01

Sample Tag: CC-83/84-111(0-1")_120423

Collected Date/Time: 12/04/2023 13:00

Matrix: Solid

COC Reference: 165489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	16.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/23 16:00	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/23 13:17, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	3,000		ug/kg	300	12674-11-2	Y
PCB-1242	Not detected	3,000		ug/kg	300	53469-21-9	Y
PCB-1221	Not detected	3,000		ug/kg	300	11104-28-2	Y
PCB-1232	Not detected	3,000		ug/kg	300	11141-16-5	Y
PCB-1248	Not detected	3,000		ug/kg	300	12672-29-6	Y
PCB-1254	16,000	3,000		ug/kg	300	11097-69-1	Y
PCB-1260	Not detected	3,000		ug/kg	300	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S56370.02

Sample Tag: CC-83/84-111(5-8")_120423

Collected Date/Time: 12/04/2023 13:20

Matrix: Solid

COC Reference: 165489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	16.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/23 16:00	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/23 13:32, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	1,500		ug/kg	150	12674-11-2	Y
PCB-1242	Not detected	1,500		ug/kg	150	53469-21-9	Y
PCB-1221	Not detected	1,500		ug/kg	150	11104-28-2	Y
PCB-1232	Not detected	1,500		ug/kg	150	11141-16-5	Y
PCB-1248	Not detected	1,500		ug/kg	150	12672-29-6	Y
PCB-1254	13,000	1,500		ug/kg	150	11097-69-1	Y
PCB-1260	Not detected	1,500		ug/kg	150	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S56370.03

Sample Tag: CC-83/84-110(0-1")_120423

Collected Date/Time: 12/04/2023 14:00

Matrix: Solid

COC Reference: 165489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	16.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/23 16:00	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/23 13:45, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	50	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	50	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	50	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	50	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	50	12672-29-6	Y
PCB-1254	2,000	500		ug/kg	50	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	50	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S56370.04

Sample Tag: CC-83/84-110(5-8")_120423

Collected Date/Time: 12/04/2023 14:15

Matrix: Solid

COC Reference: 165489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	16.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/23 16:00	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/23 13:56, 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	



Analytical Laboratory Report

Lab Sample ID: S56370.05

Sample Tag: CC-83/84-112(0-1")_120423

Collected Date/Time: 12/04/2023 15:10

Matrix: Solid

COC Reference: 165489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	16.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/23 17:40	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/23 15:53, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	2,000		ug/kg	200	12674-11-2	Y
PCB-1242	Not detected	2,000		ug/kg	200	53469-21-9	Y
PCB-1221	Not detected	2,000		ug/kg	200	11104-28-2	Y
PCB-1232	Not detected	2,000		ug/kg	200	11141-16-5	Y
PCB-1248	Not detected	2,000		ug/kg	200	12672-29-6	Y
PCB-1254	18,000	2,000		ug/kg	200	11097-69-1	Y
PCB-1260	Not detected	2,000		ug/kg	200	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S56370.06

Sample Tag: CC-83/84-112(5-8")_120423

Collected Date/Time: 12/04/2023 15:20

Matrix: Solid

COC Reference: 165489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	16.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/23 17:40	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/23 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	



Analytical Laboratory Report

Lab Sample ID: S56370.07

Sample Tag: CC-83/84-109(0-1")_120423

Collected Date/Time: 12/04/2023 15:25

Matrix: Solid

COC Reference: 165489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	16.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/23 17:40	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/23 16:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	500		ug/kg	50	12674-11-2	Y
PCB-1242	Not detected	500		ug/kg	50	53469-21-9	Y
PCB-1221	Not detected	500		ug/kg	50	11104-28-2	Y
PCB-1232	Not detected	500		ug/kg	50	11141-16-5	Y
PCB-1248	Not detected	500		ug/kg	50	12672-29-6	Y
PCB-1254	1,200	500		ug/kg	50	11097-69-1	Y
PCB-1260	Not detected	500		ug/kg	50	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S56370.08

Sample Tag: CC-83/84-109(8-12")_120423

Collected Date/Time: 12/04/2023 15:30

Matrix: Solid

COC Reference: 165489

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	16.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	12/05/23 17:40	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/06/23 16:49, 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	

Merit Laboratories Login Checklist

Lab Set ID:S56370

Client:ARCADIS_NOVI (ARCADIS U.S., Inc.)

Project: 30174223.01908

Submitted: 12/05/2023 10:15 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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples are received at 4C +/- 2C Thermometer # IR 16.4
02.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Received on ice/ cooling process begun
03.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples shipped
04.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples left in 24 hr. drop box
05.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Are there custody seals/tape or is the drop box locked
Chain of Custody		
06.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	COC adequately filled out
07.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	COC signed and relinquished to the lab
08.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sample tag on bottles match COC Two bags were labeled '110(0-1)' and missing '111(0-1)'
09.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Subcontracting needed? Subcontracted to:
Preservation		
10.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Do sample have correct chemical preservation
11.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Completed pH checks on preserved samples? (no VOAs)
12.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Did any samples need to be preserved in the lab?
Bottle Conditions		
13.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	All bottles intact
14.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Appropriate analytical bottles are used
15.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Merit bottles used
16.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sufficient sample volume received
17.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples require laboratory filtration
18.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Samples submitted within holding time
19.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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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 www.meritlabs.com

C.O.C. PAGE # 1 OF 1 165489

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Joey Barker
 COMPANY: Arcadis
 ADDRESS: 28550 Cabot Dr Suite 500
 CITY: Novi STATE: MI ZIP CODE: 48377
 PHONE NO.: 248 790 5218 CELL NO.: _____ P.O. NO.: _____
 E-MAIL ADDRESS: Joey.barker@arcadis.com QUOTE NO.: _____

CONTACT NAME: _____ SAME
 COMPANY: _____
 ADDRESS: _____
 CITY: _____ STATE: _____ ZIP CODE: _____
 PHONE NO.: _____ E-MAIL ADDRESS: _____

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME: 30174223.01908 SAMPLER(S) - PLEASE PRINT/SIGN NAME: Donald Richmond / Donald Rich
 TURNAROUND TIME REQUIRED: 1 DAY 2 DAYS 3 DAYS STANDARD OTHER _____
 DELIVERABLES REQUIRED: STD LEVEL II LEVEL III LEVEL IV EDD OTHER _____

Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other _____
 Special Instructions

MATRIX W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 CODE: SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

Containers & Preservatives

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	COLLECTION		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	PCBS
	DATE	TIME											
56370.01	12/4/23	1300	CC-83/84-110(0-1)-120423	SD	1 bag	X							
.02	12/4/23	1320	CC-83/84-111(5-8)-120423	SD	1 bag	X							
.03	12/4/23	1400	CC-83/84-110(0-1)-120423	SD	1 bag	X							
.04	12/4/23	1415	CC-83/84-110(5-8)-120423	SD	1 bag	X							
.05	12/4/23	1510	CC-83/84-112(0-1)-120423	SD	1 bag	X							
.06	12/4/23	1520	CC-83/84-112(5-8)-120423	SD	1 bag	X							
.07	12/4/23	1525	CC-83/84-109(0-1)-120423	SD	1 bag	X							
.08	12/4/23	1530	CC-83/84-109(8-12)-120423	SD	1 bag	X							

RELINQUISHED BY: _____ Sampler DATE: 12/5/23 TIME: 1015
 SIGNATURE/ORGANIZATION: Donald Richmond / Arcadis
 RECEIVED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/ORGANIZATION: Johanna Murray 12/5/23 1015
 RELINQUISHED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/ORGANIZATION: _____
 RECEIVED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/ORGANIZATION: _____

RELINQUISHED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/ORGANIZATION: _____
 RECEIVED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/ORGANIZATION: _____
 SEAL NO. SEAL INTACT INITIALS
 YES NO
 SEAL NO. SEAL INTACT INITIALS
 YES NO
 NOTES: TEMP. ON ARRIVAL 16.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE