



November

Memorandum

October 28, 2018

To: Peter Ramanauskas/USEPA

Ref. No.: 017322A

MC

From: Michael Coram/GHD

Tel:

CC: Grant Trigger/RACER; Dave Favero/RACER

**Subject: PCB Delineation Report
PCC-Validation
Pontiac, Michigan**

1. Introduction

GHD is providing this memorandum on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust for the former PCC-Validation property in Pontiac, Michigan (Site). The purpose of this memorandum is to provide a summary of work completed to delineate PCB impacts in soil to 1.0 part per million (ppm).

2. Background

The PCB soil impacted area is identified on Figure 1 and located in the southern portion of former Plant 3. This area is also referred to as AOI-20 and is associated with former transformers and/or substations historically located throughout the Site. The PCB soil impacts were first discovered during a 2008 Phase II Environmental Site Assessment (ESA) (GHD, 2008) at a depth of 12-14 feet (ft) below ground surface (bgs) at BH72-08 (located in the southern portion of former Plant 3). Multiple PCB investigations were completed from 2008 through 2015 to delineate the PCBs to 1 ppm and are described in the 2013 RCRA EI CA725 Report (GHD, 2013) and the 2018 PCB Sampling and Analysis Plan (GHD, 2018). See Table 1 for a summary of PCB soil sampling results from 2008 through 2015.

On September 24, 2015 a notification for self-implemented removal of PCBs (excavation work) was sent to the U.S. Environmental Protection Agency (EPA) for review. On October 9, 2015, PCB impacts exceeding 100 ppm were excavated, transported and disposed at the Wayne Disposal Facility located in Bellville, MI. PCB impacts exceeding 100 ppm have been laterally and vertically delineated and have been removed. A summary of work completed was submitted to EPA in a letter dated October 12, 2015 (GHD, 2015). See Figure 2 for a site map with an excavation overview.

In 2018, additional funding was acquired to continue the investigations of the PCBs; in particular, data gaps and delineation of PCB impacts to 1 ppm. A scope of work to delineate PCBs to 1.0 ppm was approved by EPA and presented in the 2018 PCB Sampling and Analysis Plan (GHD, 2018). Following the initial



2018

investigation in April 2019, additional data gaps required a second round of sampling in May 2018, a third round of investigations July 2018 and a fourth round in August 2018. Scope of work for each round of sampling was approved by EPA in email communications on March 14, 2018, May 18, 2018, June 27, 2018 and August 02, 2018, respectively (See Attachment 1 for EPA approvals). The following sections provide a summary of the 2018 field work to address data gaps and delineate PCB impacts to 1.0 ppm.

3. PCB Field Investigations

The field investigations were conducted in four rounds following the methodology described in the 2018 PCB Sampling and Analysis Plan (GHD, 2018). The first was completed on April 30, 2018, the second on May 29, 2018, the third on July 5, 2018 and the fourth round on August 10, 2018. All soil samples were collected in laboratory supplied containers for PCB analysis by EPA Method 8082. All samples were shipped under chain of custody to TestAmerica Laboratories located in North Canton, Ohio. Each of the four rounds of PCB field investigations are described below. See Figure 3 for a Site map with soil borings and analytical results. See Tables 2 and 3 for a sample analysis summary and a summary of analytical results compared against 1.0 ppm for PCBs, respectively. See Attachment 2 for the laboratory analytical reports for the 2018 field investigations.

3.1 April 30, 2018 PCB Field Investigation (First Round)

Prior to the start of the April 30, 2018 PCB investigation, a private utility locate was conducted at each boring location and GHD surveyed soil sampling locations. The survey provided location and elevation data to compare with historic data and provide accurate sampling depths regardless of site redevelopment and changes in surface elevations.

During the first round of soil borings, GHD completed eight soil borings (BH-119-18 through BH-126-18). As per the 2018 PCB Sampling and Analysis Plan (GHD, 2018), soil samples were collected at every 2 ft interval to a maximum depth of 10, 12 or 14 ft bgs. Based on the results from the April 30, 2018 investigation, soil borings BH-121-18 (2-4 and 4-6 ft bgs), BH-122-18 (2-4 bgs) and BH-123-18 (0-2 ft bgs) exceeded 1.0 ppm.

3.2 May 29, 2018 PCB Field Investigation (Second Round)

Similar methodology as the April 30, 2018 investigation was conducted during the May 29, 2018 investigation including the private locate and survey of boring locations. During the second round of soil borings, GHD completed five soil borings (BH-127-18 through BH-131-18) to delineate the April 30, 2018 exceedances as described below:

- Soil samples were collected at every 2 ft interval to a maximum depth of 8 ft bgs at soil borings BH-127-18 and BH-128-18 to delineate BH-121-18 to the north and east.
- Soil samples were collected at every 2 ft interval to a maximum depth of 6 ft bgs at soil boring BH-129-18 to delineate BH-122-18 to the north and east.



- Soil samples were collected at every 2 ft interval to a maximum depth of 4 ft bgs at soil borings BH-130-18 and BH-131-18 to delineate BH-123-18 to the south and east. It should be noted that sample BH-130-18 (2-4 ft bgs) was damaged during shipment to TestAmerica Laboratories in North Canton, Ohio and was unable to be analyzed. Therefore, no data is available for BH-130-18 from 2-4 ft bgs.

Based on the results from the May 29, 2018 investigation, soil borings BH-127-18 (2-4 ft bgs), BH-128-18 (6-8 ft bgs) and BH-129-18 (2-4 ft bgs) exceeded 1.0 ppm.

3.3 July 5, 2018 PCB Field Investigation (Third Round)

Similar methodology as the May 29, and April 30, 2018 investigation was conducted during the July 5, 2018 investigation including the private locate; however, no survey was conducted since proposed locations were at approximately the same ground elevation. During the third round of soil borings, GHD completed five soil borings (BH-132-18 through BH-136-18) to delineate the May 29, 2018 exceedances as described below:

- Soil samples were collected at every 2 ft interval to a maximum depth of 6 ft bgs at soil borings BH-132-18 and BH-133-18 to delineate BH-127-18 to the north and west.
- Soil samples were collected at every 2 ft interval to a maximum depth of 8 ft bgs at soil borings BH-134-18 to delineate BH-127-18 to the east and BH-128-18 to the north.
- Soil samples were collected at every 2 ft interval from 4 to 10 ft bgs at soil boring BH-135-18 to delineate BH-128-18 to the east.
- Soil samples were collected at every 2 ft interval to a maximum depth of 6 ft bgs at soil borings BH-136-18 to delineate BH-129-18 to the east.

Based on the results from the July 5, 2018 investigation, soil boring BH-134-18 (4-6 bgs) exceeded 1.0 ppm.

3.4 August 10, 2018 PCB Field Investigation (Fourth Round)

Similar methodology as the July 5, 2018 investigation was conducted during the August 10, 2018 investigation. During the fourth round of soil borings, GHD completed two soil borings (BH-137-18 and BH-138-18) to delineate the July 5, 2018 exceedances as described below:

- Soil samples were collected at every 2 ft interval from 2 to 8 ft bgs at soil borings BH-137-18 and BH-138-18 to delineate BH-134-18 to the north and east, respectively.

Based on the results from the August 10, 2018 investigation, soil samples were non-detect or below 1.0 ppm.

4. Discussion of Results

In total, 90 soil samples were collected from the 20 soil borings. Each of the 90 soil samples were analyzed for PCBs. The 90 soil samples were collected over four rounds to vertically and horizontally delineate PCBs in soil to 1.0 ppm. Based on the results of the four rounds of sampling, PCBs have been vertically and horizontally delineated to 1.0 ppm as described below.



4.1 Vertical Delineation of PCBs to 1.0 PPM

Based on previous investigations from 2008 through 2012, the deepest interval encountered with PCBs above 1 ppm was at soil boring BH72-08 from 12-14 ft bgs. In 2012, soil boring BH-106-12 was completed near BH72-08 to vertically delineate the deepest impacts. Based on the results from BH-106-12, PCBs were non-detect from 15 to 20 ft bgs. Therefore, in 2012, PCBs in soil were delineated to 1 ppm to a maximum depth of 14 ft bgs.

During the 2018 investigation, PCBs were detected above 1 ppm at the surface (BH-123-18) to a maximum depth of 8 ft bgs (BH-127-8). Soil borings BH-127-18, BH-135-18 BH-122-18 and BH-121-18 vertically delineated PCBs to 1 ppm to the north, east, south and west, respectively. The vertical extent of PCBs in soils exceeding 1 ppm varied at different borings but overall the vertical extent of PCBs exceeding 1 ppm in soil is from the surface to a maximum depth of 14 ft bgs. In summary, PCB concentrations exceeding 1 ppm in soil were encountered at elevations ranging from approximately 956 to 942 ft above mean sea level (AMSL).

4.2 Horizontal Delineation of PCBs to 1.0 PPM

Based on the results of the four rounds of 2018 soil sampling, PCBs at various intervals were encountered at BH-121-18, BH-122-18, BH-123-18, BH-127-18, BH-128-18, BH-129-18 and BH-134-18. During subsequent rounds of sampling, when data-gaps were encountered, samples were collected from the impacted interval and the corresponding two-foot interval above and below to confirm the data-gap was closed. Each of the sample intervals that exceeded 1.0 ppm at the borings were delineated to the north, south, east and west as identified in the table below.

Horizontal Delineation Summary

Boring Exceeding 1 ppm (ft bgs)	Delineation Borings to the North (ft bgs)	Delineation Borings to the East (ft bgs)	Delineation Borings to the South (ft bgs)	Delineation Borings to the West (ft bgs)
BH-121-18 (2-4 and 4-6)	BH-133-18 (2-4) and BH-127-18 (4-6)	BH-128-18 (2-4 and 4-6)	BH-122-18 (4-6) and BH-123-18 (2-4)	BH-120-18 (2-4 and 4-6)
BH-122-18 (2-4)	BH-133-18 (2-4)	BH-136-18 (2-4)	BH-123-18 (2-4) and BH-131-18 (2-4)	BH-126-18 (2-4)
BH-123-18 (0-2)	BH-121-18 (0-2) and BH-127-18 (0-2) and BH-133-18 (0-2)	BH-130-19 (0-2)	BH-131-18 (0-2)	BH-125-18 (0-2)
BH-127-18 (2-4)	BH-133-18 (2-4)	BH-134-18 (2-4) and BH-138-18 (2-4)	BH-123-18 (2-4) and BH-131-18 (2-4)	BH-132-18 (2-4)
BH-128-18 (6-8)	BH-134-18 (6-8) and BH-137-18 (6-8)	BH-135-18 (6-8)	BH-123-18 (6-8)	BH-120-18 (6-8) and BH-121-18 (6-8) and BH-119-18 (6-8)
BH-134-18 (4-6)	BH-137-18 (4-6)	BH-138-18 (4-6)	BH-128-18 (4-6) and BH-129-18 (4-6)	BH-132-18 (4-6) and BH-133-18 (4-6)

See figure 4 for a Site map with delineation of PCBs to 1.0 ppm. a



5. Closing

Currently, the PCBs in soil are delineated to 1.0 ppm as identified in Figure 3. No additional investigations are anticipated at this time. Upon agreement with EPA that PCBs have been delineated to 1.0 ppm, a revised Declaration of Restrictive Covenant will be prepared to provide required TSCA notification and restriction to mitigate future risks from contact with PCBs in soil greater than 1.0 ppm.

6. References

- GHD, 2008 Phase II Environmental Site Assessment, PCC-Validation, Pontiac, Michigan, 2008
- GHD, RCRA EI CA724 Report, PCC-Validation, Pontiac, Michigan, 2013
- GHD, PCB Sampling and Analysis Plan, PCC-Validation, Pontiac, Michigan, 2018
- GHD, PCB Excavation, PCC-Validation, Pontiac, Michigan, 2015

Encl: Figure 1 – Site Map with PCB Area

Figure 2 – Excavation Overview Diagram

Figure 3 – Site Map with Soil Boring Locations and Analytical Results

Figure 4 – Site Map with Delineation of PCBs to 1 PPM

Table 1 – Summary of Historic PCB Analytical Results

Table 2 – Sample Analysis Summary for 2018

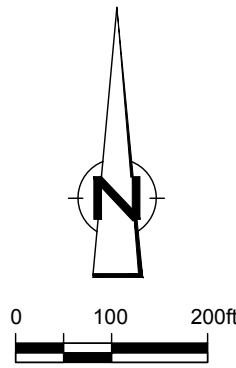
Table 3 – Summary of 2018 PCB Analytical Results

Attachment 1 – EPA Correspondence with Scope of Work Approval

Attachment 2 - Laboratory Analytical Reports (2018 only)



No	Revision	Date	Initial



- LEGEND**
- TP1-07 COMPLETED TEST PIT LOCATION
 - MW28-07 COMPLETED MONITORING WELL LOCATION
 - TMW71-08 COMPLETED TEMPORARY MONITORING WELL LOCATION
 - BH8-07 COMPLETED SOIL BORING LOCATION
 - APPROXIMATE SITE BOUNDARY
 - EXISTING STRUCTURE
 - FORMER SITE STRUCTURE
 - M.H. MANHOLE
 - C.B. CATCH BASIN

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

SITE MAP WITH PCB AREA

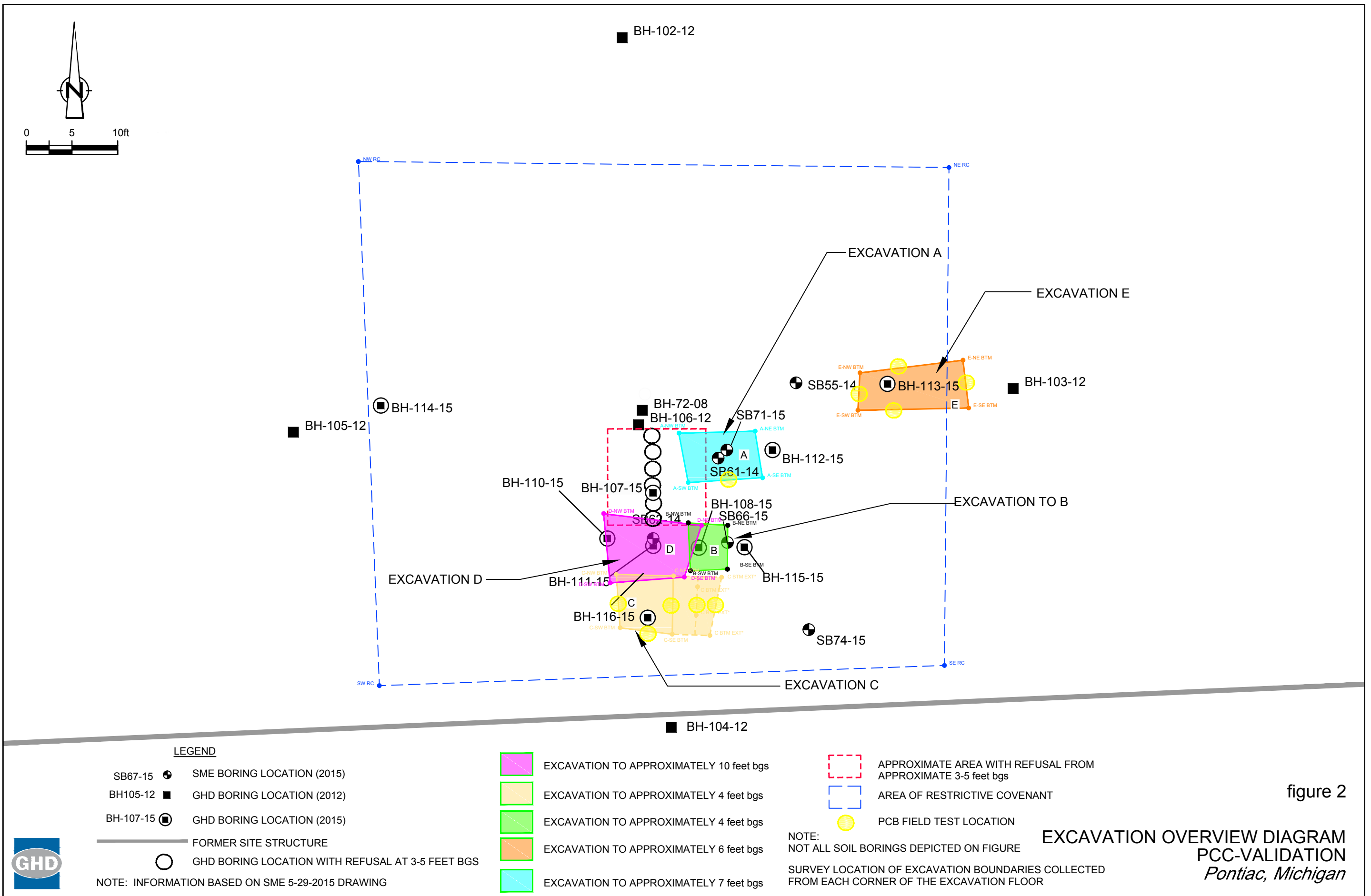
PCC-VALIDATION
PONTIAC, MICHIGAN

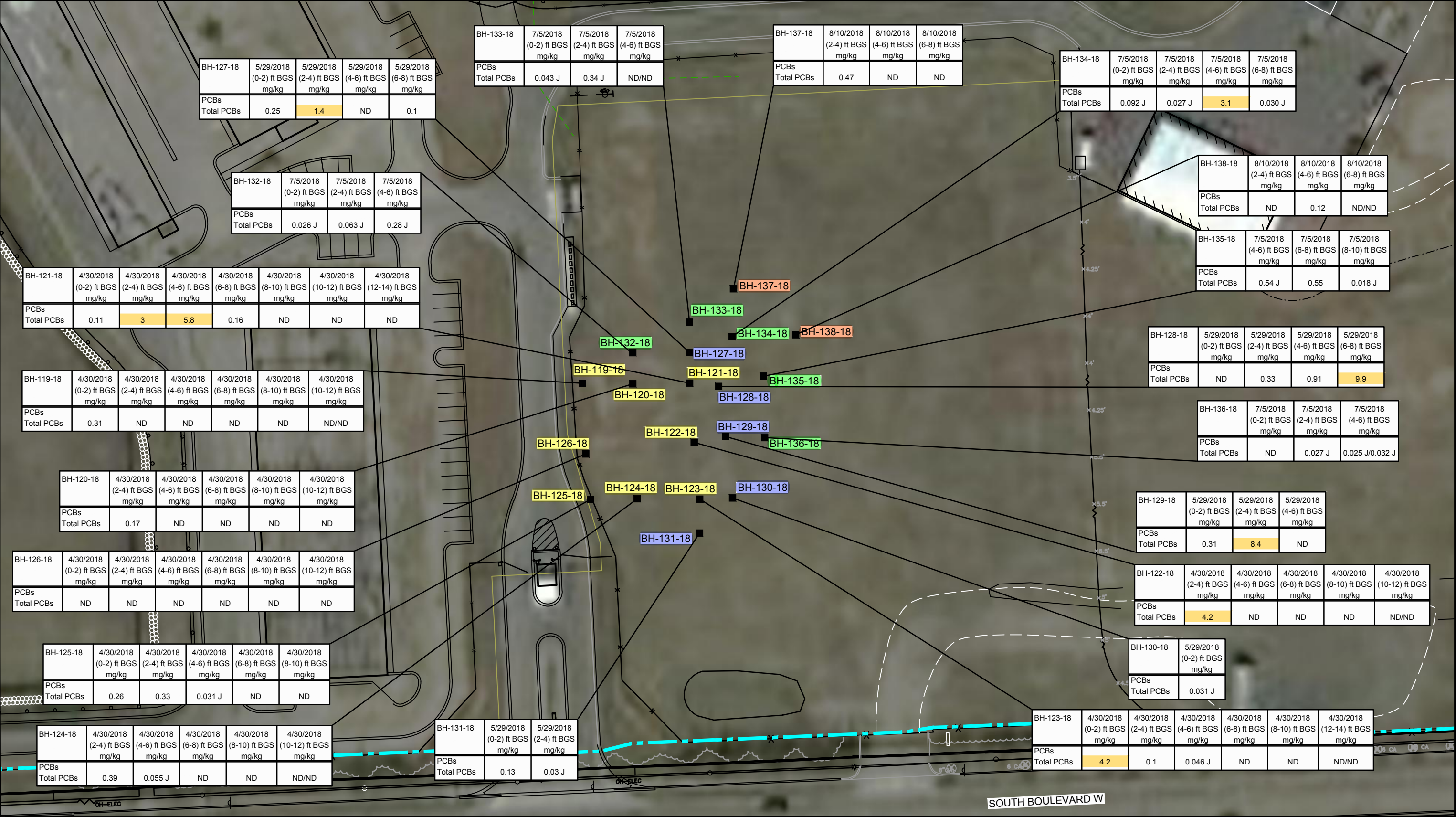


CONESTOGA-ROVERS & ASSOCIATES

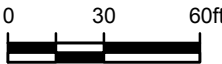
Source Reference:

Project Manager: T.K.	Reviewed By: M.C.	Date: FEBRUARY 2013
Scale: 1:200	Project N°: 017322-T01	Report N°: 018
		Drawing N°: 1





Source: GOOGLE EARTH (DIGITAL GLOBE 4/7/2017)



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- RAILROAD
- BH-127-18 SOIL BORING LOCATION

- BH-138-18 APRIL 30, 2018 INVESTIGATION
- BH-138-18 MAY 29, 2018 INVESTIGATION
- BH-138-18 JULY 5, 2018 INVESTIGATION
- BH-138-18 AUGUST 10, 2018 INVESTIGATION

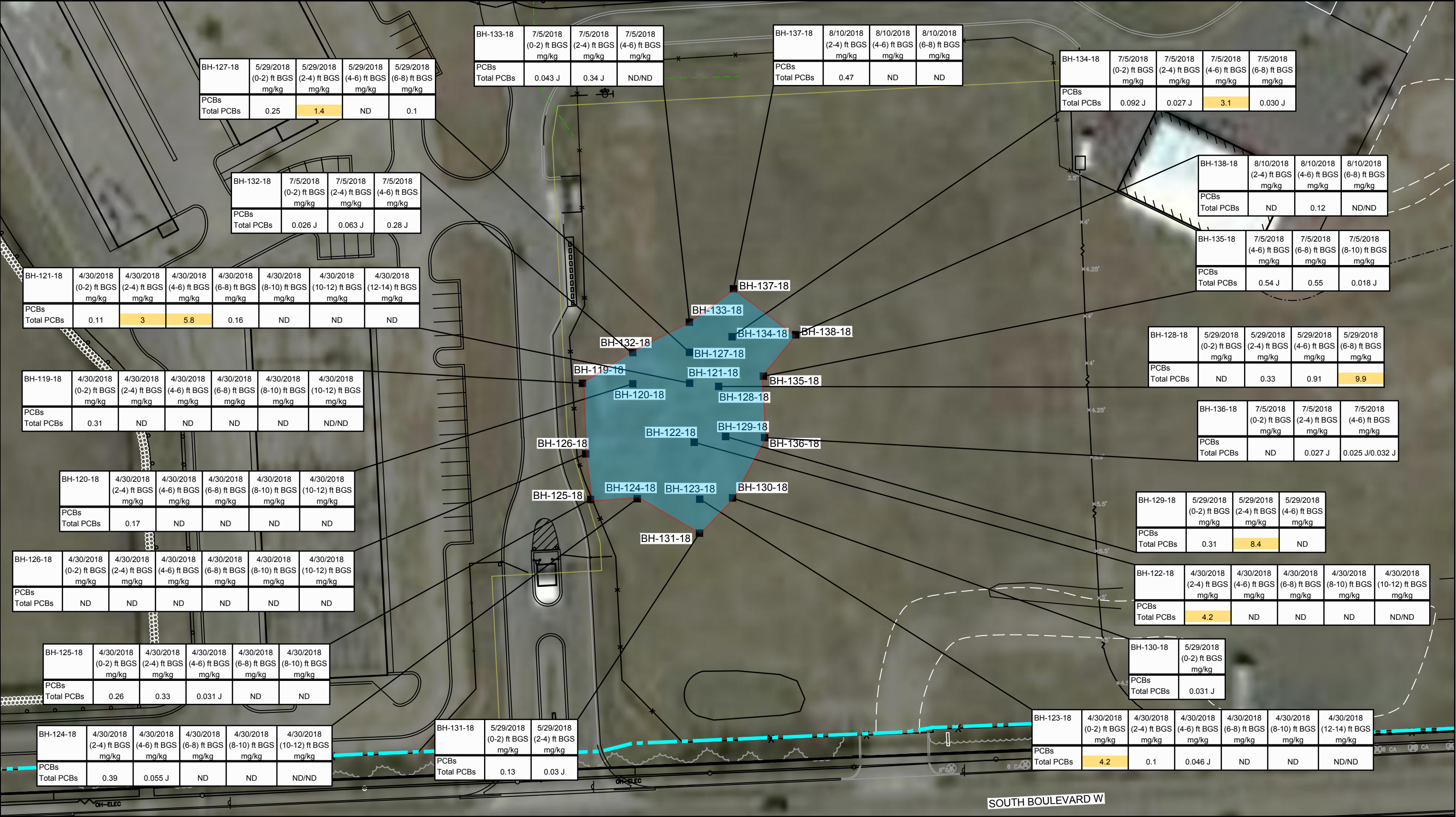


RACER
1 CONCOURSE DRIVE
PONTIAC, MICHIGAN

SITE MAP WITH SOIL BORING LOCATIONS AND ANALYTICAL RESULTS

017322-T07
Oct 16, 2018

FIGURE 3



Source: GOOGLE EARTH (DIGITAL GLOBE 4/7/2017)

03060ft

LEGEND

APPROXIMATE PROPERTY BOUNDARY

RAILROAD

BH-127-18 SOIL BORING LOCATION

1 PPM PCB BOUNDARY



RACER
1 CONCOURSE DRIVE
PONTIAC, MICHIGAN

SITE MAP WITH DELINEATION OF PCBS TO 1 PPM

017322-T07
Oct 16, 2018

FIGURE 4

Table 1

Summary of Historic PCB Analytical Results
PCC-Validation
Pontiac, Michigan

Sample Location:			BH72-08	BH72-08	BH72-08	BH102-12	BH102-12	BH102-12	BH103-12	BH103-12	BH103-12	BH104-12	BH104-12	BH104-12	BH105-12	BH105-12	BH105-12	BH105-12	BH106-12	BH106-12
Sample Depth:			0-2 ft BGS	8-10 ft BGS	12-14 ft BGS	0-2 ft BGS	12-14 ft BGS	22-24 ft BGS	0-2 ft BGS	12-14 ft BGS	23-25 ft BGS	0-2 ft BGS	12-14 ft BGS	22-24 ft BGS	0-2 ft BGS	12-14 ft BGS	18-20 ft BGS	18-20 ft BGS	15-17 ft BGS	18-20 ft BGS
Sample Date:			03/13/2008	03/13/2008	03/13/2008	08/20/2012	08/20/2012	08/20/2012	08/20/2012	08/20/2012	08/20/2012	08/20/2012	08/20/2012	08/20/2012	08/20/2012	08/20/2012	08/20/2012	08/20/2012	08/20/2012	08/20/2012
Consultant:			GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD Duplicate	GHD	GHD
Parameters	Units																			
PCBs																				
Aroclor-1016 (PCB-1016)	mg/kg	1	0.035 U	0.038 U	3.8 U	0.051 U	0.043 U	0.047 U	0.044 U	0.044 U	0.047 U	0.042 U	0.046 U	0.048 U	0.044 U	0.045 U	0.043 U	0.042 U	0.043 U	0.044 U
Aroclor-1221 (PCB-1221)	mg/kg	1	0.035 U	0.038 U	3.8 U	0.051 U	0.043 U	0.047 U	0.044 U	0.044 U	0.047 U	0.042 U	0.046 U	0.048 U	0.044 U	0.045 U	0.043 U	0.042 U	0.043 U	0.044 U
Aroclor-1232 (PCB-1232)	mg/kg	1	0.035 U	0.038 U	3.8 U	0.051 U	0.043 U	0.047 U	0.044 U	0.044 U	0.047 U	0.042 U	0.046 U	0.048 U	0.044 U	0.045 U	0.043 U	0.042 U	0.043 U	0.044 U
Aroclor-1242 (PCB-1242)	mg/kg	1	0.035 U	0.038 U	3.8 U	0.051 U	0.043 U	0.047 U	0.044 U	0.044 U	0.047 U	0.042 U	0.046 U	0.048 U	0.044 U	0.045 U	0.043 U	0.042 U	0.043 U	0.044 U
Aroclor-1248 (PCB-1248)	mg/kg	1	0.035 U	0.038 U	3.8 U	0.051 U	0.043 U	0.047 U	0.044 U	0.044 U	0.047 U	0.042 U	0.046 U	0.048 U	0.044 U	0.045 U	0.043 U	0.042 U	0.043 U	0.044 U
Aroclor-1254 (PCB-1254)	mg/kg	1	0.24	0.038 U	20	0.051 U	0.043 U	0.047 U	0.04 J	0.044 U	0.047 U	0.042 U	0.046 U	0.048 U	0.12	0.045 U	0.043 U	0.042 U	0.043 U	0.044 U
Aroclor-1260 (PCB-1260)	mg/kg	1	0.035 U	0.038 U	3.8 U	0.051 U	0.043 U	0.047 U	0.044 U	0.044 U	0.047 U	0.042 U	0.046 U	0.048 U	0.044 U	0.045 U	0.043 U	0.042 U	0.043 U	0.044 U
Total PCBs	mg/kg	1	0.258	0.038 U	22	0.051 U	0.043 U	0.047 U	0.04	0.044 U	0.047 U	0.042 U	0.046 U	0.048 U	0.12	0.045 U	0.043 U	0.042 U	0.043 U	0.044 U

Sample Location:			BH-107-15	BH-107-15	BH-107-15	BH-107-15	BH-107-15	BH-107-15	BH-108-15	BH-108-15	BH-108-15	BH-108-15	BH-108-15	BH-108-15	BH-108-15	BH-109-15	BH-109-15	BH-109-15	BH-109-15	BH-109-15
Sample Depth:			0-2 ft BGS	2-4 ft BGS	4-6 ft BGS	6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	0-2 ft BGS	2-4 ft BGS	4-6 ft BGS	6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	0-2 ft BGS	2-4 ft BGS	4-6 ft BGS	6-8 ft BGS	8-10 ft BGS	10-12 ft BGS
Sample Date:			08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015
Consultant:			GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD
Parameters	Units																			
PCBs																				
Aroclor-1016 (PCB-1016)	mg/kg	1	0.042 U	0.045 U	0.044 U	0.044 U	0.046 U	0.045 U	0.044 U	0.045 U	0.047 U	0.045 U	0.043 U	0.047 U	0.045 U	0.046 U	0.048 U	0.044 U	0.043 U	0.044 U
Aroclor-1221 (PCB-1221)	mg/kg	1	0.042 U	0.045 U	0.044 U	0.044 U	0.046 U	0.045 U	0.044 U	0.045 U	0.047 U	0.045 U	0.043 U	0.047 U	0.045 U	0.046 U	0.048 U	0.044 U	0.043 U	0.044 U
Aroclor-1232 (PCB-1232)	mg/kg	1	0.042 U	0.045 U	0.044 U	0.044 U	0.046 U	0.045 U	0.044 U	0.045 U	0.047 U	0.045 U	0.043 U	0.047 U	0.045 U	0.046 U	0.048 U	0.044 U	0.043 U	0.044 U
Aroclor-1242 (PCB-1242)	mg/kg	1	0.042 U	0.045 U	0.044 U	0.044 U	0.046 U	0.045 U	0.044 U	0.045 U	0.047 U	0.045 U	0.043 U	0.047 U	0.045 U	0.046 U	0.048 U	0.044 U	0.043 U	0.044 U
Aroclor-1248 (PCB-1248)	mg/kg	1	0.042 U	0.045 U	0.044 U	0.044 U	0.046 U	0.045 U	0.044 U	0.045 U	0.047 U	0.045 U	0.043 U	0.047 U	0.045 U	0.046 U	0.048 U	0.044 U	0.043 U	0.044 U
Aroclor-1254 (PCB-1254)	mg/kg	1	0.51	4.6	0.033 J	1.1	20	7.1	1.6	110	1.9	29	7.3	1.8	1.6	21	7.3	82	15	0.05
Aroclor-1260 (PCB-1260)	mg/kg	1	0.042 U	0.045 U	0.044 U	0.044 U	0.046 U	0.045 U	0.044 U	0.045 U	0.047 U	0.045 U	0.043 U	0.047 U	0.045 U	0.046 U	0.048 U	0.044 U	0.043 U	0.044 U
Total PCBs	mg/kg	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Sample Location:			BH-110-15	BH-110-15	BH-110-15	BH-110-15	BH-110-15	BH-110-15	BH-111-15	BH-111-15	BH-111-15	BH-111-15	BH-111-15	BH-111-15	BH-111-15	BH112-12	BH112-12	BH113-12	BH-113-15	BH-115-15	BH-115-15
Sample Depth:			0-2 ft BGS	2-4 ft BGS	4-6 ft BGS	6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	0-2 ft BGS	2-4 ft BGS	4-6 ft BGS	6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	5.5 ft BGS	16 ft BGS	17 ft BGS	12/05/2012	12/05/2012	12/05/2012	12/05/2012
Sample Date:			08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015
Consultant:			GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD
Parameters	Units																				
PCBs																					
Aroclor-1016 (PCB-1016)	mg/kg	1	0.044 U	0.046 U	0.044 U	0.047 U	0.045 U	0.048 U	0.043 U	0.042 U	0.046 U	0.047 U	0.046 U	0.044 U	0.046 U	0.045 U	0.046 U	0.044	0.043 U	0.043 U	0.043 U
Aroclor-1221 (PCB-1221)	mg/kg	1	0.044 U	0.046 U	0.044 U	0.047 U	0.045 U	0.048 U	0.043 U	0.042 U	0.046 U	0.047 U	0.046 U	0.044 U	0.046 U	0.045 U	0.046 U	0.044	0.043 U	0.043 U	0.043 U
Aroclor-1232 (PCB-1232)	mg/kg	1	0.044 U	0.046 U	0.044 U	0.047 U	0.045 U	0.048 U	0.043 U	0.042 U	0.046 U	0.047 U	0.046 U	0.044 U	0.046 U	0.045 U	0.046 U	0.044	0.043 U	0.043 U	0.043 U
Aroclor-1242 (PCB-1242)	mg/kg	1	0.044 U	0.046 U	0.044 U	0.047 U	0.045 U	0.048 U	0.043 U	0.042 U	0.046 U	0.047 U	0.046 U	0.044 U	0.046 U	0.045 U	0.046 U	0.044	0.043 U	0.043 U	0.043 U
Aroclor-1248 (PCB-1248)	mg/kg	1	0.044 U	0.046 U	0.044 U	0.047 U	0.045 U	0.048 U	0.043 U	0.042 U	0.046 U	0.047 U	0.046 U	0.044 U	0.046 U	0.045 U	0.046 U	0.044	0.043 U	0.043 U	0.043 U
Aroclor-1254 (PCB-1254)	mg/kg	1	4.7	0.025 J	0.026 J	11	100	68	11	130	88	150	140	5.8	0.046 U	0.045 U	0.046 U	0.12	50	90	0.043 U
Aroclor-1260 (PCB-1260)	mg/kg	1	0.044 U	0.046 U	0.044 U	0.047 U	0.045 U	0.048 U	0.043 U	0.042 U	0.046 U	0.047 U	0.046 U	0.044 U	0.046 U	0.045 U	0.046 U	0.044	0.043 U	0.043 U	0.043 U
Total PCBs	mg/kg	1	--	--	--	--	--	--	--	--	--	--	--	--	0.046 U	0.045 U	0.046 U	--	--	--	--

Footnotes:
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.
<RL - Below laboratory reporting limit

Summary of Historic PCB Analytical Results

Sample Location:			BH-115-15	BH-116-15	BH-116-15	BH-116-15	BH-117-15	BH-117-15	BH-117-15	BH-118-15	SB39-14	SB39-14	SB39-14	SB40-14	SB40-14	SB40-14	SB41-14	SB41-14	SB41-14	SB42-14	SB42-14		
Sample Depth:			4-6 ft BGS	2-4 ft BGS	4-6 ft BGS	6-8 ft BGS	2-4 ft BGS	8-10 ft BGS	10-12 ft BGS	2-4 ft BGS	10-11 ft BGS	12-13 ft BGS	14-15 ft BGS	10-11 ft BGS	12-13 ft BGS	14-15 ft BGS	10-11 ft BGS	12-13 ft BGS	14-15 ft BGS	10-11 ft BGS	12-13 ft BGS		
Sample Date:			08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	08/31/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015		
Consultant:			GHD	GHD	GHD	GHD	GHD	GHD	GHD	GHD	SME	SME	SME	SME	SME	SME	SME	SME	SME	SME	SME		
Parameters			Units																				
PCBs																							
Aroclor-1016 (PCB-1016)			mg/kg	1	0.046 U	0.045 U	0.045 U	0.046 U	0.043 U	0.045 U	0.042 U	0.045 U	--	--	--	--	--	--	--	--	--		
Aroclor-1221 (PCB-1221)			mg/kg	1	0.046 U	0.045 U	0.045 U	0.046 U	0.043 U	0.045 U	0.042 U	0.045 U	--	--	--	--	--	--	--	--	--		
Aroclor-1232 (PCB-1232)			mg/kg	1	0.046 U	0.045 U	0.045 U	0.046 U	0.043 U	0.045 U	0.042 U	0.045 U	--	--	--	--	--	--	--	--	--		
Aroclor-1242 (PCB-1242)			mg/kg	1	0.046 U	0.045 U	0.045 U	0.046 U	0.043 U	0.045 U	0.042 U	0.045 U	--	--	--	--	--	--	--	--	--		
Aroclor-1248 (PCB-1248)			mg/kg	1	0.046 U	0.045 U	0.045 U	0.046 U	0.043 U	0.045 U	0.042 U	0.045 U	--	--	--	--	--	--	--	--	--		
Aroclor-1254 (PCB-1254)			mg/kg	1	12	160	0.54	0.11	0.61	0.058	0.093	51	--	--	--	--	--	--	--	--	--		
Aroclor-1260 (PCB-1260)			mg/kg	1	0.046 U	0.045 U	0.045 U	0.046 U	0.043 U	0.045 U	0.042 U	0.045 U	--	--	--	--	--	--	--	--	--		
Total PCBs			mg/kg	1	--	--	--	--	--	--	--	--	40	26	<RL	9.2	4	<RL	<RL	<RL	HOLD	11	.660

Table 1

Summary of Historic PCB Analytical Results
PCC-Validation
Pontiac, Michigan

Sample Location:		SB67-15	SB68-15	SB68-15	SB68-15	SB68-15	SB68-15	SB68-15	SB69-15	SB69-15	SB69-15	SB69-15	SB71-15	SB71-15	SB71-15	SB73-15	SB73-15	SB73-15	SB73-15
Sample Depth:		11-11.5 ft BGS	1-1.5 ft BGS	3-3.5 ft BGS	5-5.5 ft BGS	7-7.5 ft BGS	9-9.5 ft BGS	11-11.5 ft BGS	1-1.5 ft BGS	3-3.5 ft BGS	5-5.5 ft BGS	6.5-7 ft BGS	1-1.5 ft BGS	5-5.5 ft BGS	7-7.5 ft BGS	1-1.5 ft BGS	3-3.5 ft BGS	5-5.5 ft BGS	7-7.5 ft BGS
Sample Date:		5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015
Consultant:		SME	SME	SME	SME	SME	SME	SME	SME	SME	SME	SME	SME	SME	SME	SME	SME	SME	SME
Parameters		Units																	
PCBs																			
Aroclor-1016 (PCB-1016)	mg/kg	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1221 (PCB-1221)	mg/kg	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1232 (PCB-1232)	mg/kg	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1242 (PCB-1242)	mg/kg	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1248 (PCB-1248)	mg/kg	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1254 (PCB-1254)	mg/kg	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1260 (PCB-1260)	mg/kg	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	mg/kg	1	HOLD	<RL	<RL	<RL	<RL	<RL	<RL							HOLD	HOLD	HOLD	HOLD

Sample Location:		SB73-15	SB73-15	SB73-15	SB74-15	SB74-15	SB74-15	SB74-15
Sample Depth:		9-9.5 ft BGS	11-12 ft BGS	12ft BGS (DL	1-1.5 ft BGS	3-3.5 ft BGS	5-5.5 ft BGS	7-7.5 ft BGS
Sample Date:		5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015	5/29/2015
Consultant:		SME	SME	SME	SME	SME	SME	SME
Parameters		Units						
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	--	--	--	--	--	--
Aroclor-1221 (PCB-1221)	mg/kg	1	--	--	--	--	--	--
Aroclor-1232 (PCB-1232)	mg/kg	1	--	--	--	--	--	--
Aroclor-1242 (PCB-1242)	mg/kg	1	--	--	--	--	--	--
Aroclor-1248 (PCB-1248)	mg/kg	1	--	--	--	--	--	--
Aroclor-1254 (PCB-1254)	mg/kg	1	--	--	--	--	--	--
Aroclor-1260 (PCB-1260)	mg/kg	1	--	--	--	--	--	--
Total PCBs	mg/kg	1	<RL	<RL	<RL	HOLD	HOLD	HOLD

Footnotes:
U - Not detected at the associated reporting limit.

J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.
<RL - Below laboratory reporting limit

Table 2

Sample Analysis Summary
PCC-Validation
Pontiac, Michigan

Sample ID	Location Description	Soil Sample Depth (Ft bgs)	Collection Date (mm/dd/yy)	Sample Type	QAQC	Parent ID	Analysis
April 2018 PCB Soil Sampling Event							
SO-17322-043018-DR-001	BH-123-18	0-2	4/30/2018	soil			PCB
SO-17322-043018-DR-002	BH-123-18	2-4	4/30/2018	soil			PCB
SO-17322-043018-DR-003	BH-123-18	4-6	4/30/2018	soil			PCB
SO-17322-043018-DR-004	BH-123-18	6-8	4/30/2018	soil			PCB
SO-17322-043018-DR-005	BH-123-18	8-10	4/30/2018	soil			PCB
SO-17322-043018-DR-006	BH-123-18	12-14	4/30/2018	soil			PCB
SO-17322-043018-DR-007	BH-123-18	12-14	4/30/2018	soil	Dup	SO-17322-043018-DR-006	PCB
SO-17322-043018-DR-008	BH-122-18	2-4	4/30/2018	soil			PCB
SO-17322-043018-DR-009	BH-122-18	4-6	4/30/2018	soil			PCB
SO-17322-043018-DR-010	BH-122-18	6-8	4/30/2018	soil			PCB
SO-17322-043018-DR-011	BH-122-18	8-10	4/30/2018	soil			PCB
SO-17322-043018-DR-012	BH-122-18	10-12	4/30/2018	soil			PCB
SO-17322-043018-DR-013	BH-122-18	10-12	4/30/2018	soil	Dup	SO-17322-043018-DR-012	PCB
SO-17322-043018-DR-014	BH-121-18	0-2	4/30/2018	soil			PCB
SO-17322-043018-DR-015	BH-121-18	2-4	4/30/2018	soil			PCB
SO-17322-043018-DR-016	BH-121-18	4-6	4/30/2018	soil			PCB
SO-17322-043018-DR-017	BH-121-18	6-8	4/30/2018	soil			PCB
SO-17322-043018-DR-018	BH-121-18	8-10	4/30/2018	soil			PCB
SO-17322-043018-DR-019	BH-121-18	10-12	4/30/2018	soil			PCB
SO-17322-043018-DR-020	BH-121-18	12-14	4/30/2018	soil			PCB
SO-17322-043018-DR-021	BH-120-18	2-4	4/30/2018	soil			PCB
SO-17322-043018-DR-022	BH-120-18	4-6	4/30/2018	soil			PCB
SO-17322-043018-DR-023	BH-120-18	6-8	4/30/2018	soil			PCB
SO-17322-043018-DR-024	BH-120-18	8-10	4/30/2018	soil			PCB
SO-17322-043018-DR-025	BH-120-18	10-12	4/30/2018	soil			PCB
SO-17322-043018-DR-026	BH-119-18	0-2	4/30/2018	soil			PCB
SO-17322-043018-DR-027	BH-119-18	2-4	4/30/2018	soil			PCB
SO-17322-043018-DR-028	BH-119-18	4-6	4/30/2018	soil			PCB
SO-17322-043018-DR-029	BH-119-18	6-8	4/30/2018	soil			PCB
SO-17322-043018-DR-030	BH-119-18	8-10	4/30/2018	soil			PCB
SO-17322-043018-DR-031	BH-119-18	10-12	4/30/2018	soil			PCB
SO-17322-043018-DR-032	BH-119-18	10-12	4/30/2018	soil	Dup	SO-17322-043018-DR-031	PCB
SO-17322-043018-DR-033	BH-126-18	0-2	4/30/2018	soil			PCB
SO-17322-043018-DR-034	BH-126-18	2-4	4/30/2018	soil			PCB
SO-17322-043018-DR-035	BH-126-18	4-6	4/30/2018	soil			PCB
SO-17322-043018-DR-036	BH-126-18	6-8	4/30/2018	soil			PCB
SO-17322-043018-DR-037	BH-126-18	8-10	4/30/2018	soil			PCB
SO-17322-043018-DR-038	BH-126-18	10-12	4/30/2018	soil			PCB
SO-17322-043018-DR-039	BH-125-18	0-2	4/30/2018	soil			PCB
SO-17322-043018-DR-040	BH-125-18	2-4	4/30/2018	soil			PCB
SO-17322-043018-DR-041	BH-125-18	4-6	4/30/2018	soil			PCB
SO-17322-043018-DR-042	BH-125-18	6-8	4/30/2018	soil			PCB
SO-17322-043018-DR-043	BH-125-18	8-10	4/30/2018	soil			PCB
SO-17322-043018-DR-044	BH-124-18	2-4	4/30/2018	soil			PCB
SO-17322-043018-DR-045	BH-124-18	4-6	4/30/2018	soil			PCB
SO-17322-043018-DR-046	BH-124-18	6-8	4/30/2018	soil			PCB
SO-17322-043018-DR-047	BH-124-18	8-10	4/30/2018	soil			PCB
SO-17322-043018-DR-048	BH-124-18	10-12	4/30/2018	soil			PCB
SO-17322-043018-DR-049	BH-124-18	10-12	4/30/2018	soil	Dup	SO-17322-043018-DR-048	PCB

Table 2

Sample Analysis Summary
PCC-Validation
Pontiac, Michigan

Sample ID	Location Description	Soil Sample Depth (Ft bgs)	Collection Date (mm/dd/yy)	Sample Type	QAQC	Parent ID	Analysis
May 2018 PCB Soil Sampling Event							
S-17322A-052918-SK-001	BH-127-18	0-2	5/29/2018	soil			PCB
S-17322A-052918-SK-002	BH-127-18	2-4	5/29/2018	soil			PCB
S-17322A-052918-SK-003	BH-127-18	4-6	5/29/2018	soil			PCB
S-17322A-052918-SK-004	BH-127-18	6-8	5/29/2018	soil			PCB
S-17322A-052918-SK-005	BH-128-18	0-2	5/29/2018	soil			PCB
S-17322A-052918-SK-006	BH-128-18	2-4	5/29/2018	soil			PCB
S-17322A-052918-SK-007	BH-128-18	4-6	5/29/2018	soil			PCB
S-17322A-052918-SK-008	BH-128-18	6-8	5/29/2018	soil			PCB
S-17322A-052918-SK-009	BH-129-18	0-2	5/29/2018	soil			PCB
S-17322A-052918-SK-010	BH-129-18	2-4	5/29/2018	soil			PCB
S-17322A-052918-SK-011	BH-129-18	4-6	5/29/2018	soil			PCB
S-17322A-052918-SK-012	BH-130-18	0-2	5/29/2018	soil			PCB
S-17322A-052918-SK-013	BH-130-18	2-4	5/29/2018	soil			PCB
S-17322A-052918-SK-014	BH-131-18	0-2	5/29/2018	soil			PCB
S-17322A-052918-SK-015	BH-131-18	2-4	5/29/2018	soil			PCB
July 2018 PCB Soil Sampling Event							
SO-17322A-070518-DS-001	BH-132-18	0-2	7/5/2018	soil			PCB
SO-17322A-070518-DS-002	BH-132-18	2-4	7/5/2018	soil			PCB
SO-17322A-070518-DS-003	BH-132-18	4-6	7/5/2018	soil			PCB
SO-17322A-070518-DS-004	BH-133-18	0-2	7/5/2018	soil			PCB
SO-17322A-070518-DS-005	BH-133-18	2-4	7/5/2018	soil			PCB
SO-17322A-070518-DS-006	BH-133-18	4-6	7/5/2018	soil			PCB
SO-17322A-070518-DS-007	BH-133-18	4-6	7/5/2018	soil	Dup	SO-17322A-070518-DS-006	PCB
SO-17322A-070518-DS-008	BH-134-18	0-2	7/5/2018	soil			PCB
SO-17322A-070518-DS-009	BH-134-18	2-4	7/5/2018	soil			PCB
SO-17322A-070518-DS-010	BH-134-18	4-6	7/5/2018	soil			PCB
SO-17322A-070518-DS-011	BH-134-18	6-8	7/5/2018	soil			PCB
SO-17322A-070518-DS-012	BH-134-18	8-10	7/5/2018	soil	ms/msd		PCB
SO-17322A-070518-DS-013	BH-135-18	4-6	7/5/2018	soil			PCB
SO-17322A-070518-DS-014	BH-135-18	6-8	7/5/2018	soil			PCB
SO-17322A-070518-DS-015	BH-135-18	8-10	7/5/2018	soil			PCB
SO-17322A-070518-DS-016	BH-136-18	0-2	7/5/2018	soil			PCB
SO-17322A-070518-DS-017	BH-136-18	2-4	7/5/2018	soil			PCB
SO-17322A-070518-DS-018	BH-136-18	4-6	7/5/2018	soil			PCB
SO-17322A-070518-DS-019	BH-136-18	4-6	7/5/2018	soil	Dup	SO-17322A-070518-DS-018	PCB
August 2018 PCB Soil Sampling Event							
SB-17322A-081018-KT-001	BH-138-18	2-4	8/10/2018	soil			PCB
SB-17322A-081018-KT-002	BH-138-18	4-6	8/10/2018	soil			PCB
SB-17322A-081018-KT-003	BH-138-18	6-8	8/10/2018	soil			PCB
SB-17322A-081018-KT-004	BH-138-18	6-8	8/10/2018	soil	Dup	SB-17322A-081018-KT-003	PCB
SB-17322A-081018-KT-005	BH-137-18	2-4	8/10/2018	soil			PCB
SB-17322A-081018-KT-006	BH-137-18	4-6	8/10/2018	soil			PCB
SB-17322A-081018-KT-007	BH-137-18	6-8	8/10/2018	soil			PCB

Table 3
Summary of 2018 PCB Analytical Results
PCC-Validation
Pontiac, Michigan

Sample Location:			BH-119-18	BH-119-18	BH-119-18	BH-119-18	BH-119-18	BH-119-18	BH-119-18	BH-120-18	BH-120-18	BH-120-18	BH-120-18	BH-120-18	BH-121-18	BH-121-18	BH-121-18	BH-121-18	BH-121-18
Sample Date:			4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018
Sample Depth:			(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(10-12) ft BGS	(10-12) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(10-12) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Parameters			Units																
PCBs																			
Aroclor-1016 (PCB-1016)	mg/kg	1	0.056 U	0.055 U	0.057 U	0.055 U	0.058 U	0.055 U	0.059 U	0.056 U	0.057 U	0.055 U	0.057 U	0.055 U	0.055 U	0.53 U	0.28 U	0.06 U	0.055 U
Aroclor-1221 (PCB-1221)	mg/kg	1	0.056 U	0.055 U	0.057 U	0.055 U	0.058 U	0.055 U	0.059 U	0.056 U	0.057 U	0.055 U	0.057 U	0.055 U	0.055 U	0.53 U	0.28 U	0.06 U	0.055 U
Aroclor-1232 (PCB-1232)	mg/kg	1	0.056 U	0.055 U	0.057 U	0.055 U	0.058 U	0.055 U	0.059 U	0.056 U	0.057 U	0.055 U	0.057 U	0.055 U	0.055 U	0.53 U	0.28 U	0.06 U	0.055 U
Aroclor-1242 (PCB-1242)	mg/kg	1	0.056 U	0.055 U	0.057 U	0.055 U	0.058 U	0.055 U	0.059 U	0.056 U	0.057 U	0.055 U	0.057 U	0.055 U	0.055 U	0.53 U	0.28 U	0.06 U	0.055 U
Aroclor-1248 (PCB-1248)	mg/kg	1	0.056 U	0.055 U	0.057 U	0.055 U	0.058 U	0.055 U	0.059 U	0.056 U	0.057 U	0.055 U	0.057 U	0.055 U	0.055 U	0.53 U	0.28 U	0.06 U	0.055 U
Aroclor-1254 (PCB-1254)	mg/kg	1	0.31	0.055 U	0.057 U	0.055 U	0.058 U	0.055 U	0.059 U	0.17	0.057 U	0.055 U	0.057 U	0.055 U	0.11	3	5.8	0.16	0.055 U
Aroclor-1260 (PCB-1260)	mg/kg	1	0.056 U	0.055 U	0.057 U	0.055 U	0.058 U	0.055 U	0.059 U	0.056 U	0.057 U	0.055 U	0.057 U	0.055 U	0.055 U	0.53 U	0.28 U	0.06 U	0.055 U
Total PCBs	mg/kg	1	0.31	ND	ND	ND	ND	ND	ND	0.17	ND	ND	ND	ND	0.11	3	5.8	0.16	ND
Sample Location:			BH-121-18	BH-121-18	BH-122-18	BH-122-18	BH-122-18	BH-122-18	BH-122-18	BH-123-18	BH-123-18	BH-123-18	BH-123-18	BH-123-18	BH-123-18	BH-123-18	BH-123-18	BH-124-18	BH-124-18
Sample Date:			4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018
Sample Depth:			(10-12) ft BGS	(12-14) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(10-12) ft BGS	(10-12) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(12-14) ft BGS	(12-14) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Parameters			Units																
PCBs																			
Aroclor-1016 (PCB-1016)	mg/kg	1	0.056 U	0.055 U	0.28 U	0.058 U	0.058 U	0.056 U	0.059 U	0.45 U	0.28 U	0.055 U	0.058 U	0.054 U	0.054 U	0.055 U	0.055 U	0.059 U	0.058 U
Aroclor-1221 (PCB-1221)	mg/kg	1	0.056 U	0.055 U	0.28 U	0.058 U	0.058 U	0.056 U	0.059 U	0.45 U	0.28 U	0.055 U	0.058 U	0.054 U	0.054 U	0.055 U	0.055 U	0.059 U	0.058 U
Aroclor-1232 (PCB-1232)	mg/kg	1	0.056 U	0.055 U	0.28 U	0.058 U	0.058 U	0.056 U	0.059 U	0.45 U	0.28 U	0.055 U	0.058 U	0.054 U	0.054 U	0.055 U	0.055 U	0.059 U	0.058 U
Aroclor-1242 (PCB-1242)	mg/kg	1	0.056 U	0.055 U	0.28 U	0.058 U	0.058 U	0.056 U	0.059 U	0.45 U	0.28 U	0.055 U	0.058 U	0.054 U	0.054 U	0.055 U	0.055 U	0.059 U	0.058 U
Aroclor-1248 (PCB-1248)	mg/kg	1	0.056 U	0.055 U	0.28 U	0.058 U	0.058 U	0.056 U	0.059 U	0.45 U	0.28 U	0.055 U	0.058 U	0.054 U	0.054 U	0.055 U	0.055 U	0.059 U	0.058 U
Aroclor-1254 (PCB-1254)	mg/kg	1	0.056 U	0.055 U	4.2	0.058 U	0.058 U	0.056 U	0.059 U	0.45 U	4.2	0.1	0.046 J	0.054 U	0.054 U	0.055 U	0.055 U	0.39	0.055 J
Aroclor-1260 (PCB-1260)	mg/kg	1	0.056 U	0.055 U	0.28 U	0.058 U	0.058 U	0.056 U	0.059 U	0.45 U	0.28 U	0.055 U	0.058 U	0.054 U	0.054 U	0.055 U	0.055 U	0.059 U	0.058 U
Total PCBs	mg/kg	1	ND	ND	4.2	ND	ND	ND	ND	ND	4.2	0.1	0.046 J	ND	ND	ND	ND	0.39	0.055 J
Sample Location:			BH-124-18	BH-124-18	BH-124-18	BH-124-18	BH-125-18	BH-125-18	BH-125-18	BH-125-18	BH-125-18	BH-126-18	BH-126-18	BH-126-18	BH-126-18	BH-126-18	BH-126-18	BH-127-18	BH-127-18
Sample Date:			4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	5/29/2018	5/29/2018
Sample Depth:			(6-8) ft BGS	(8-10) ft BGS	(10-12) ft BGS	(10-12) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(10-12) ft BGS	(0-2) ft BGS	(2-4) ft BGS
Parameters			Units																
PCBs																			
Aroclor-1016 (PCB-1016)	mg/kg	1	0.056 U	0.059 U	0.054 U	0.056 U	0.057 U	0.057 U	0.059 U	0.056 U	0.058 U	0.054 U	0.055 U	0.062 U	0.059 U	0.054 U	0.053 U	0.055 U	0.058 U
Aroclor-1221 (PCB-1221)	mg/kg	1	0.056 U	0.059 U	0.054 U	0.056 U	0.057 U	0.057 U	0.059 U	0.056 U	0.058 U	0.054 U	0.055 U	0.062 U	0.059 U	0.054 U	0.053 U	0.055 U	0.058 U
Aroclor-1232 (PCB-1232)	mg/kg	1	0.056 U	0.059 U	0.054 U	0.056 U	0.057 U	0.057 U	0.059 U	0.056 U	0.058 U	0.054 U	0.055 U	0.062 U	0.059 U	0.054 U	0.053 U	0.055 U	0.058 U
Aroclor-1242 (PCB-1242)	mg/kg	1	0.056 U	0.059 U	0.054 U	0.056 U	0.057 U	0.057 U	0.059 U	0.056 U	0.058 U	0.054 U	0.055 U	0.062 U	0.059 U	0.054 U	0.053 U	0.055 U	0.058 U
Aroclor-1248 (PCB-1248)	mg/kg	1	0.056 U	0.059 U	0.054 U	0.056 U	0.057 U	0.057 U	0.059 U	0.056 U	0.058 U	0.054 U	0.055 U	0.062 U	0.059 U	0.054 U	0.053 U	0.055 U	0.058 U
Aroclor-1254 (PCB-1254)	mg/kg	1	0.056 U	0.059 U	0.054 U	0.056 U	0.26	0.33	0.031 J	0.056 U	0.058 U	0.054 U	0.055 U	0.062 U	0.059 U	0.054 U	0.053 U	0.25	1.4
Aroclor-1260 (PCB-1260)	mg/kg	1	0.056 U	0.059 U	0.054 U	0.056 U	0.057 U	0.057 U	0.059 U	0.056 U	0.058 U	0.054 U	0.055 U	0.062 U	0.059 U	0.054 U	0.053 U	0.055 U	0.058 U
Total PCBs	mg/kg	1	ND	ND	ND	ND	0.26	0.33	0.031 J	ND	ND	ND	ND	ND	ND	ND	ND	0.25	1.4

Footnotes:
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.
<RL - Below laboratory reporting limit

Table 3
Summary of 2018 PCB Analytical Results
PCC-Validation
Pontiac, Michigan

Sample Location:			BH-127-18	BH-127-18	BH-128-18	BH-128-18	BH-128-18	BH-128-18	BH-129-18	BH-129-18	BH-129-18	BH-130-18	BH-131-18	BH-131-18	BH-132-18	BH-132-18	BH-132-18	BH-133-18	BH-133-18														
Sample Date:			5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	7/5/2018	7/5/2018	7/5/2018	7/5/2018	7/5/2018														
Sample Depth:			(4-6) ft BGS	(6-8) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(0-2) ft BGS	(2-4) ft BGS														
Parameters			Units																														
PCBs																																	
Aroclor-1016 (PCB-1016)	mg/kg	1	0.063 U	0.058 U	0.064 U	0.055 U	0.053 U	1.1 U	0.054 U	0.59 U	0.055 U	0.057 U	0.057 U	0.054 U	0.036 U	0.038 U	0.042 U	0.037 U	0.040 U														
Aroclor-1221 (PCB-1221)	mg/kg	1	0.063 U	0.058 U	0.064 U	0.055 U	0.053 U	1.1 U	0.054 U	0.59 U	0.055 U	0.057 U	0.057 U	0.054 U	0.036 U	0.038 U	0.042 U	0.037 U	0.040 U														
Aroclor-1232 (PCB-1232)	mg/kg	1	0.063 U	0.058 U	0.064 U	0.055 U	0.053 U	1.1 U	0.054 U	0.59 U	0.055 U	0.057 U	0.057 U	0.054 U	0.036 U	0.038 U	0.042 U	0.037 U	0.040 U														
Aroclor-1242 (PCB-1242)	mg/kg	1	0.063 U	0.058 U	0.064 U	0.055 U	0.053 U	1.1 U	0.054 U	0.59 U	0.055 U	0.057 U	0.057 U	0.054 U	0.036 U	0.038 U	0.042 U	0.037 U	0.040 U														
Aroclor-1248 (PCB-1248)	mg/kg	1	0.063 U	0.058 U	0.064 U	0.055 U	0.053 U	1.1 U	0.054 U	0.59 U	0.055 U	0.057 U	0.057 U	0.054 U	0.036 U	0.038 U	0.042 U	0.037 U	0.040 U														
Aroclor-1254 (PCB-1254)	mg/kg	1	0.063 U	0.1	0.064 U	0.33	0.91	9.9	0.31	8.4	0.055 U	0.031 J	0.13	0.03 J	0.021 J	0.050	0.23	0.034 J	0.30														
Aroclor-1260 (PCB-1260)	mg/kg	1	0.063 U	0.058 U	0.064 U	0.055 U	0.053 U	1.1 U	0.054 U	0.59 U	0.055 U	0.057 U	0.057 U	0.054 U	0.0050 J	0.014 J	0.042 J	0.0087 J	0.038 J														
Total PCBs	mg/kg	1	ND	0.1	ND	0.33	0.91	9.9	0.31	8.4	ND	0.031 J	0.13	0.03 J	0.026 J	0.063 J	0.28 J	0.043 J	0.34 J														
Sample Location:			BH-133-18	BH-133-18	BH-134-18	BH-134-18	BH-134-18	BH-134-18	BH-135-18	BH-135-18	BH-135-18	BH-136-18	BH-136-18	BH-136-18	BH-136-18	BH-137-18	BH-137-18	BH-137-18	BH-138-18														
Sample Date:			7/5/2018	7/5/2018	7/5/2018	7/5/2018	7/5/2018	7/5/2018	7/5/2018	7/5/2018	7/5/2018	7/5/2018	7/5/2018	7/5/2018	7/5/2018	8/10/2018	8/10/2018	8/10/2018	8/10/2018														
Sample Depth:			(4-6) ft BGS	(4-6) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(4-6) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(2-4) ft BGS														
Parameters			Units																														
PCBs																																	
Aroclor-1016 (PCB-1016)	mg/kg	1	0.037 U	0.037 U	0.035 U	0.039 U	0.39 U	0.036 U	0.072 U	0.072 U	0.046 U	0.036 U	0.040 U	0.039 U	0.038 U	0.069 U	0.036 U	0.037 U	0.035 U														
Aroclor-1221 (PCB-1221)	mg/kg	1	0.037 U	0.037 U	0.035 U	0.039 U	0.39 U	0.036 U	0.072 U	0.072 U	0.046 U	0.036 U	0.040 U	0.039 U	0.038 U	0.069 U	0.036 U	0.037 U	0.035 U														
Aroclor-1232 (PCB-1232)	mg/kg	1	0.037 U	0.037 U	0.035 U	0.039 U	0.39 U	0.036 U	0.072 U	0.072 U	0.046 U	0.036 U	0.040 U	0.039 U	0.038 U	0.069 U	0.036 U	0.037 U	0.035 U														
Aroclor-1242 (PCB-1242)	mg/kg	1	0.037 U	0.037 U	0.035 U	0.039 U	0.39 U	0.036 U	0.072 U	0.072 U	0.046 U	0.036 U	0.040 U	0.039 U	0.038 U	0.069 U	0.036 U	0.037 U	0.035 U														
Aroclor-1248 (PCB-1248)	mg/kg	1	0.037 U	0.037 U	0.035 U	0.039 U	0.39 U	0.036 U	0.072 U	0.072 U	0.046 U	0.036 U	0.040 U	0.039 U	0.038 U	0.069 U	0.036 U	0.037 U	0.035 U														
Aroclor-1254 (PCB-1254)	mg/kg	1	0.037 U	0.037 U	0.074	0.022 J	0.71	0.022 J	0.49	0.50	0.018 J	0.036 U	0.0073 J	0.020 J	0.019 J	0.47	0.036 U	0.037 U	0.035 U														
Aroclor-1260 (PCB-1260)	mg/kg	1	0.037 U	0.037 U	0.018 J	0.0051 J	2.3	0.0076 J	0.052 J	0.057 J	0.046 U	0.036 U	0.020 J	0.0041 J	0.013 J	0.069 U	0.036 U	0.037 U	0.035 U														
Total PCBs	mg/kg	1	ND	ND	0.092 J	0.027 J	3.1	0.030 J	0.54 J	0.55	0.018 J	ND	0.027 J	0.025 J	0.032 J	0.47	ND	ND	ND														
Sample Location:			BH-138-18	BH-138-18	BH-138-18																												
Sample Date:			8/10/2018	8/10/2018	8/10/2018																												
Sample Depth:			(4-6) ft BGS	(6-8) ft BGS	(6-8) ft BGS																												
Parameters			Units																														
PCBs																																	
Aroclor-1016 (PCB-1016)	mg/kg	1	0.037 U	0.038 U	0.037 U																												
Aroclor-1221 (PCB-1221)	mg/kg	1	0.037 U	0.038 U	0.037 U																												
Aroclor-1232 (PCB-1232)	mg/kg	1	0.037 U	0.038 U	0.037 U																												
Aroclor-1242 (PCB-1242)	mg/kg	1	0.037 U	0.038 U	0.037 U																												
Aroclor-1248 (PCB-1248)	mg/kg	1	0.037 U	0.038 U	0.037 U																												
Aroclor-1254 (PCB-1254)	mg/kg	1	0.12	0.038 U	0.037 U																												
Aroclor-1260 (PCB-1260)	mg/kg	1	0.037 U	0.038 U	0.037 U																												
Total PCBs	mg/kg	1	0.12	ND	ND																												

Footnotes:
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.
<RL - Below laboratory reporting limit

Attachment A

EPA Correspondence with Scope of Work Approval

From: Ramanauskas, Peter
To: [Michael Coram](mailto:Michael.Coram@ghd.com)
Cc: [Thomas Kinney](mailto:Thomas.Kinney@ghd.com); [Dave Favero](mailto:Dave.Favero@racertrust.org)
Subject: RE: PCC-Validation - Update 6-27-18
Date: Thursday, August 02, 2018 5:09:26 PM

Thanks, Mike. No objections.

Peter

From: Michael.Coram@ghd.com [mailto:Michael.Coram@ghd.com]
Sent: Thursday, August 02, 2018 2:01 PM
To: Ramanauskas, Peter <ramanauskas.peter@epa.gov>
Cc: Tom.Kinney@ghd.com; Dave Favero <dfavero@racertrust.org>
Subject: RE: PCC-Validation - Update 6-27-18

Good afternoon Peter,

Regarding the former PCC-Validation Site, I would like to provide an update for the PCB Delineation. Based on the results of the most recent step-out borings we exceeded 1 PPM at BH-134-18. Therefore, we propose to drill two additional delineation borings. See attached for a (draft version) map of the PCB area including previous sample locations and our proposed step-outs (red dots). Since we exceeded 1 ppm at the 4-6 interval, we plan to sample the 2-4, 4-6 and 6-8 intervals at the two proposed locations. Please review the locations and respond if scope is acceptable or if you require additional data-points.

Thanks,

Michael Coram, CPG

GHD

T: +1 248 893 3420 | M: +1 248 390 5748 | E: Michael.Coram@ghd.com
26850 Haggerty Road, Farmington Hills, Michigan 48331 USA www.ghd.com
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From: Ramanauskas, Peter <ramanauskas.peter@epa.gov>
Sent: Wednesday, June 27, 2018 3:28 PM
To: Michael Coram <Michael.Coram@ghd.com>
Cc: Thomas Kinney <Tom.Kinney@ghd.com>; Dave Favero <dfavero@racertrust.org>; Jeff Lanier <Jeff.Lanier@sme-usa.com>; Brad Oleshansky (brad@m1concourse.com) (brad@m1concourse.com) <brad@m1concourse.com>
Subject: RE: PCC-Validation - Update 6-27-18

Thanks, Mike. No objections to the proposed scope for additional borings.

Peter

From: Michael.Coram@ghd.com [mailto:Michael.Coram@ghd.com]
Sent: Wednesday, June 27, 2018 1:48 PM
To: Ramanauskas, Peter <ramanauskas.peter@epa.gov>
Cc: Tom.Kinney@ghd.com; Dave Favero <dfavero@racertrust.org>; Jeff Lanier <Jeff.Lanier@sme-usa.com>; Brad Oleshansky (brad@m1concourse.com) (brad@m1concourse.com) <brad@m1concourse.com>
Subject: RE: PCC-Validation - Update 6-27-18

Good afternoon Peter,

Regarding the former PCC-Validation Site I would like to provide updates for the two areas of recent investigation (**PCB Delineation** and **Groundwater Monitoring Well Installation and Sampling**).

PCB delineation:

Based on the results of the most recent step-out borings we exceeded 1 PPM at three locations (BH-127-18, BH-128-18 and BH-129-81). Therefore we propose to install five additional delineation borings. See attached for a close up map of the PCB area including previous sample locations and our proposed step-outs. Also, attached is a table with current and previous 2018 PCB results. The approach is the same as previous, we will sample the interval that contained PCBs above 1 ppm and both the intervals above and below the interval(s) containing above 1 ppm. Intervals are included on the map and summarized below:

<u>Proposed Boring</u>	<u>Description and Exceeded Interval</u>	<u>Sample Interval in ft bgs</u>
BH-132-18	West of BH-127-18 (2-4)	0-2, 2-4, 4-6
BH-133-18	North of BH-127-18 (2-4)	0-2, 2-4, 4-6
BH-134-18	East of BH-127-18 (2-4) and north of BH-128-18 (6-8)	0-2, 2-4, 4-6, 6-8, 8-10
BH-135-18	East of BH-128-18 (6-8)	4-6, 6-8, 8-10
BH-136-18	East of BH-129-18 (2-4)	0-2, 2-4, 4-6

Please review the locations and respond if scope is acceptable or if you require additional data-points.

-

Groundwater Monitoring Well Installation and Sampling:

Regarding the recent monitoring well installation and sampling, we completed the scope of work except at two monitoring wells (MW21-07 and MW79-12). Utilities were present near MW21-07 and we had refusal at MW79-12. Therefore, we will re-locate the two wells to new locations and attempt to install during the next phase of well installation. Most wells had sufficient groundwater except MW38-07 (which is consist with historical water levels). We attempted to bore deeper at MW38-07 but there was not a sufficient saturated zone encountered. Results from wells sampled were all consistent or less than previous results. I will summarize the well installation and results in a report soon.

Feel free to give me a call with any questions.

Thanks,

Michael Coram, CPG

GHD

T: +1 248 893 3420 | M: +1 248 390 5748 | E: Michael.Coram@ghd.com
26850 Haggerty Road, Farmington Hills, Michigan 48331 USA www.ghd.com
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From: Ramanauskas, Peter <ramanauskas.peter@epa.gov>

Sent: Friday, May 18, 2018 12:49 PM

To: Dave Favero <dfavero@racertrust.org>

Cc: Michael Coram <Michael.Coram@ghd.com>; Thomas Kinney <Tom.Kinney@ghd.com>

Subject: RE: PCC-Validation - DRAFT PCB Sampling and Analysis Plan ~COR-017322-03~

Thank you for the update, Dave. No objections to your proposed sampling.

Peter

From: Dave Favero [<mailto:dfavero@racertrust.org>]
Sent: Friday, May 18, 2018 9:08 AM
To: Ramanauskas, Peter <ramanauskas.peter@epa.gov>
Cc: Mike Coram, GHD <Michael.Coram@ghd.com>; Tom Kinney, GHD <tom.kinney@ghd.com>
Subject: RE: PCC-Validation - DRAFT PCB Sampling and Analysis Plan ~COR-017322-03~

Hi Peter,

Please see the attached Excel file that includes the results of the recently completed sampling that had the objective of delineating PCBs to below 1 ppm. Unfortunately the 3 easternmost sample locations contained PCBs above 1 ppm up to ~6 ppm in one or more sampling intervals. In order to continue delineation efforts we are proposing 5 step out boring locations. Please see attached figure that shows the general locations of the proposed borings. The proposed sampling intervals are also identified on the figure. The approach is to sample the interval that contained PCBs above 1 ppm and both the intervals above and below the interval(s) containing above 1 ppm.

Mike has scheduled well installation beginning on 5/29 and if acceptable to you we would also like to complete the proposed additional sampling at that time.

Please let us know if you have any comments or would like to discuss, or if you approve the proposed sampling.

Thank you,
David Favero
Deputy Cleanup Manager - Michigan

RACER | 500 Woodward Avenue, Suite 2650 | Detroit, MI 48226 | dfavero@racertrust.org | direct line – 734.879.9525 | c – 217.741.6235 | www.racertrust.org

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From: Ramanauskas, Peter [<mailto:ramanauskas.peter@epa.gov>]
Sent: Monday, April 16, 2018 3:29 PM
To: Dave Favero <dfavero@racertrust.org>
Subject: RE: PCC-Validation - DRAFT PCB Sampling and Analysis Plan ~COR-017322-03~

Hi Dave,

Thanks for the revised document. Still good to go for Wednesday. Can you let me know where to meet you? I plan to leave before 8 am Central if possible and it usually takes me around 5 hours to get up there.

Thanks,
Peter

From: Dave Favero [<mailto:dfavero@racertrust.org>]

Sent: Monday, April 16, 2018 2:16 PM

To: Ramanauskas, Peter <ramanauskas.peter@epa.gov>

Subject: RE: PCC-Validation - DRAFT PCB Sampling and Analysis Plan ~COR-017322-03~

Peter,

PDF of the final package is attached. See you on Wednesday afternoon at M1 or let me know if any conflicts have come up.

Thank you,

David Favero

Deputy Cleanup Manager - Michigan

RACER | 500 Woodward Avenue, Suite 2650 | Detroit, MI 48226 | dfavero@racertrust.org | direct line – 734.879.9525 | c – 217.741.6235 | www.racertrust.org

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From: Ramanauskas, Peter [<mailto:ramanauskas.peter@epa.gov>]

Sent: Wednesday, March 14, 2018 9:43 AM

To: Michael.Coram@ghd.com

Cc: Dave Favero <dfavero@racertrust.org>; Grant Trigger <gtrigger@racertrust.org>; Tom.Kinney@ghd.com; cctofiling@croworld.com

Subject: RE: PCC-Validation - DRAFT PCB Sampling and Analysis Plan ~COR-017322-03~

Thanks, Mike. The edited text looks good.

Peter

From: Michael.Coram@ghd.com [<mailto:Michael.Coram@ghd.com>]

Sent: Wednesday, March 14, 2018 8:34 AM

To: Ramanauskas, Peter <ramanauskas.peter@epa.gov>

Cc: Dave Favero <dfavero@racertrust.org>; Grant Trigger <gtrigger@racertrust.org>; Tom.Kinney@ghd.com; cctofiling@croworld.com

Subject: RE: PCC-Validation - DRAFT PCB Sampling and Analysis Plan ~COR-017322-03~

Good morning Peter,

See attached for the updated text with redline edits to further clarify the rationale for sampling depth intervals. Please review, and let me know if you have any questions. There are no changes to the tables/figures. Let me know if you would like me to re-send the tables/figures.

Thanks,

Michael Coram, CPG

GHD

T: +1 248 893 3420 | M: +1 248 390 5748 | E: Michael.Coram@ghd.com

26850 Haggerty Road, Farmington Hills, Michigan 48331 USA www.ghd.com

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From: Ramanauskas, Peter [<mailto:ramanauskas.peter@epa.gov>]
Sent: Tuesday, March 13, 2018 4:23 PM
To: Michael Coram <Michael.Coram@ghd.com>
Cc: Dave Favero <dfavero@racertrust.org>; Grant Trigger <gtrigger@racertrust.org>; Thomas Kinney <Tom.Kinney@ghd.com>; cctofiling@croworld.com
Subject: RE: PCC-Validation - DRAFT PCB Sampling and Analysis Plan ~COR-017322-03~

Thank you, Mike.

I don't need a Word version. My only comment is that if they stated purpose/objective of the SAP is to delineate to < 1 ppm, but you aren't planning to collect an interval deeper than 14 feet in spite of the elevated presence at the 12 to 14 foot interval of BH72-08, you need to restate the objective or add deeper samples.

Thanks,
Peter

From: Michael.Coram@ghd.com [<mailto:Michael.Coram@ghd.com>]
Sent: Tuesday, March 13, 2018 2:26 PM
To: Ramanauskas, Peter <ramanauskas.peter@epa.gov>
Cc: Dave Favero <dfavero@racertrust.org>; Grant Trigger <gtrigger@racertrust.org>; Tom.Kinney@ghd.com; cctofiling@croworld.com
Subject: PCC-Validation - DRAFT PCB Sampling and Analysis Plan ~COR-017322-03~

Good afternoon Peter,

See attached for the DRAFT PCB Sampling and Analysis Plan for the PCC-Validation Site. The proposed sampling locations and intervals are consistent with last Wednesday's (03-7-18) conference call between the EPA, RACER and GHD. Please review and let me know if you would like a word version to mark-up.

Thanks,

Michael Coram, CPG

GHD

T: +1 248 893 3420 | M: +1 248 390 5748 | E: Michael.Coram@ghd.com
26850 Haggerty Road, Farmington Hills, Michigan 48331 USA www.ghd.com
[WATER](#) | [ENERGY & RESOURCES](#) | [ENVIRONMENT](#) | [PROPERTY & BUILDINGS](#) | [TRANSPORTATION](#)

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Attachment B

Laboratory Analytical Reports (2018 Only)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-94866-1

Client Project/Site: 17322A-T06, PCC Validation

For:

GHD Services Inc.

26850 Haggerty Rd.

Farmington Hills, Michigan 48331

Attn: James Abston



Authorized for release by:

5/9/2018 10:40:53 AM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	5
Sample Summary	6
Detection Summary	7
Method Summary	11
Client Sample Results	12
QC Association Summary	110
QC Sample Results	114
Surrogate Summary	118
Lab Chronicle	120
Certification Summary	137
Chain of Custody	138



Case Narrative

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Job ID: 240-94866-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative 240-94866-1

Comments

No additional comments.

Receipt

The samples were received on 5/1/2018 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7° C.

GC Semi VOA

Method(s) 8082A: The following samples were diluted due to abundance of target analytes: SO-17322-043018-DR-001 (240-94866-1), SO-17322-043018-DR-008 (240-94866-8) and SO-17322-043018-DR-016 (240-94866-16). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8082A: Surrogate Decachlorobiphenyl recovery for the following samples were outside control limits: SO-17322-043018-DR-007 (240-94866-7), SO-17322-043018-DR-009 (240-94866-9), SO-17322-043018-DR-011 (240-94866-11) and (240-94866-B-20-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SO-17322-043018-DR-001 (240-94866-1), SO-17322-043018-DR-002 (240-94866-2), SO-17322-043018-DR-003 (240-94866-3), SO-17322-043018-DR-004 (240-94866-4), SO-17322-043018-DR-008 (240-94866-8), SO-17322-043018-DR-009 (240-94866-9), SO-17322-043018-DR-010 (240-94866-10), SO-17322-043018-DR-012 (240-94866-12), SO-17322-043018-DR-013 (240-94866-13), SO-17322-043018-DR-014 (240-94866-14), SO-17322-043018-DR-017 (240-94866-17) and SO-17322-043018-DR-019 (240-94866-19). 3560343, 3449340, 3361890.

Method(s) 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SO-17322-043018-DR-021 (240-94866-21), SO-17322-043018-DR-022 (240-94866-22), SO-17322-043018-DR-028 (240-94866-28), SO-17322-043018-DR-030 (240-94866-30), SO-17322-043018-DR-034 (240-94866-34), SO-17322-043018-DR-035 (240-94866-35), SO-17322-043018-DR-036 (240-94866-36), SO-17322-043018-DR-039 (240-94866-39), SO-17322-043018-DR-040 (240-94866-40), (240-94866-B-22-B MS) and (240-94866-B-22-C MSD). 3560343, 3449340, 3361890.

Method(s) 8082A: Surrogate recoveries for the following samples were outside control limits: SO-17322-043018-DR-045 (240-94866-45) and SO-17322-043018-DR-046 (240-94866-46). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SO-17322-043018-DR-041 (240-94866-41), SO-17322-043018-DR-043 (240-94866-43), SO-17322-043018-DR-044 (240-94866-44), SO-17322-043018-DR-045 (240-94866-45), SO-17322-043018-DR-046 (240-94866-46), (240-94866-B-44-B MS) and (240-94866-B-44-C MSD). 3560343, 3449340, 3361890.

Method(s) 8082A: The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: SO-17322-043018-DR-046 (240-94866-46). The samples have been quantified and reported using the best overall Aroclor/standard pattern match.

Method(s) 8082A: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SO-17322-043018-DR-013 (240-94866-13). 3560341, 3449341, 3361891.

Method(s) 8082A: The following sample required a Silica Gel clean-up, via EPA Method 3630C, to reduce matrix interferences: SO-17322-043018-DR-013 (240-94866-13). 3515664

Method(s) 8082A: The following sample was diluted due to the nature of the sample matrix: SO-17322-043018-DR-013 (240-94866-13). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Case Narrative

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Job ID: 240-94866-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-94866-1	SO-17322-043018-DR-001	Solid	04/30/18 08:25	05/01/18 10:00
240-94866-2	SO-17322-043018-DR-002	Solid	04/30/18 08:27	05/01/18 10:00
240-94866-3	SO-17322-043018-DR-003	Solid	04/30/18 08:33	05/01/18 10:00
240-94866-4	SO-17322-043018-DR-004	Solid	04/30/18 08:35	05/01/18 10:00
240-94866-5	SO-17322-043018-DR-005	Solid	04/30/18 08:37	05/01/18 10:00
240-94866-6	SO-17322-043018-DR-006	Solid	04/30/18 08:43	05/01/18 10:00
240-94866-7	SO-17322-043018-DR-007	Solid	04/30/18 08:45	05/01/18 10:00
240-94866-8	SO-17322-043018-DR-008	Solid	04/30/18 08:55	05/01/18 10:00
240-94866-9	SO-17322-043018-DR-009	Solid	04/30/18 08:57	05/01/18 10:00
240-94866-10	SO-17322-043018-DR-010	Solid	04/30/18 09:00	05/01/18 10:00
240-94866-11	SO-17322-043018-DR-011	Solid	04/30/18 09:05	05/01/18 10:00
240-94866-12	SO-17322-043018-DR-012	Solid	04/30/18 09:08	05/01/18 10:00
240-94866-13	SO-17322-043018-DR-013	Solid	04/30/18 09:10	05/01/18 10:00
240-94866-14	SO-17322-043018-DR-014	Solid	04/30/18 09:20	05/01/18 10:00
240-94866-15	SO-17322-043018-DR-015	Solid	04/30/18 09:22	05/01/18 10:00
240-94866-16	SO-17322-043018-DR-016	Solid	04/30/18 09:25	05/01/18 10:00
240-94866-17	SO-17322-043018-DR-017	Solid	04/30/18 09:27	05/01/18 10:00
240-94866-18	SO-17322-043018-DR-018	Solid	04/30/18 09:30	05/01/18 10:00
240-94866-19	SO-17322-043018-DR-019	Solid	04/30/18 09:33	05/01/18 10:00
240-94866-20	SO-17322-043018-DR-020	Solid	04/30/18 09:35	05/01/18 10:00
240-94866-21	SO-17322-043018-DR-021	Solid	04/30/18 09:45	05/01/18 10:00
240-94866-22	SO-17322-043018-DR-022	Solid	04/30/18 09:50	05/01/18 10:00
240-94866-23	SO-17322-043018-DR-023	Solid	04/30/18 09:53	05/01/18 10:00
240-94866-24	SO-17322-043018-DR-024	Solid	04/30/18 09:55	05/01/18 10:00
240-94866-25	SO-17322-043018-DR-025	Solid	04/30/18 10:00	05/01/18 10:00
240-94866-26	SO-17322-043018-DR-026	Solid	04/30/18 10:10	05/01/18 10:00
240-94866-27	SO-17322-043018-DR-027	Solid	04/30/18 10:12	05/01/18 10:00
240-94866-28	SO-17322-043018-DR-028	Solid	04/30/18 10:17	05/01/18 10:00
240-94866-29	SO-17322-043018-DR-029	Solid	04/30/18 10:20	05/01/18 10:00
240-94866-30	SO-17322-043018-DR-030	Solid	04/30/18 10:23	05/01/18 10:00
240-94866-31	SO-17322-043018-DR-031	Solid	04/30/18 10:25	05/01/18 10:00
240-94866-32	SO-17322-043018-DR-032	Solid	04/30/18 10:27	05/01/18 10:00
240-94866-33	SO-17322-043018-DR-033	Solid	04/30/18 10:40	05/01/18 10:00
240-94866-34	SO-17322-043018-DR-034	Solid	04/30/18 10:42	05/01/18 10:00
240-94866-35	SO-17322-043018-DR-035	Solid	04/30/18 10:47	05/01/18 10:00
240-94866-36	SO-17322-043018-DR-036	Solid	04/30/18 10:50	05/01/18 10:00
240-94866-37	SO-17322-043018-DR-037	Solid	04/30/18 10:53	05/01/18 10:00
240-94866-38	SO-17322-043018-DR-038	Solid	04/30/18 10:55	05/01/18 10:00
240-94866-39	SO-17322-043018-DR-039	Solid	04/30/18 11:00	05/01/18 10:00
240-94866-40	SO-17322-043018-DR-040	Solid	04/30/18 11:05	05/01/18 10:00
240-94866-41	SO-17322-043018-DR-041	Solid	04/30/18 11:07	05/01/18 10:00
240-94866-42	SO-17322-043018-DR-042	Solid	04/30/18 11:10	05/01/18 10:00
240-94866-43	SO-17322-043018-DR-043	Solid	04/30/18 11:12	05/01/18 10:00
240-94866-44	SO-17322-043018-DR-044	Solid	04/30/18 11:25	05/01/18 10:00
240-94866-45	SO-17322-043018-DR-045	Solid	04/30/18 11:30	05/01/18 10:00
240-94866-46	SO-17322-043018-DR-046	Solid	04/30/18 11:32	05/01/18 10:00
240-94866-47	SO-17322-043018-DR-047	Solid	04/30/18 11:35	05/01/18 10:00
240-94866-48	SO-17322-043018-DR-048	Solid	04/30/18 11:40	05/01/18 10:00
240-94866-49	SO-17322-043018-DR-049	Solid	04/30/18 11:42	05/01/18 10:00

TestAmerica Canton

Detection Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-001

Lab Sample ID: 240-94866-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	4200		280	130	ug/Kg	5	☼	8082A	Total/NA

Client Sample ID: SO-17322-043018-DR-002

Lab Sample ID: 240-94866-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	100		55	25	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: SO-17322-043018-DR-003

Lab Sample ID: 240-94866-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	46	J	58	27	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: SO-17322-043018-DR-004

Lab Sample ID: 240-94866-4

No Detections.

Client Sample ID: SO-17322-043018-DR-005

Lab Sample ID: 240-94866-5

No Detections.

Client Sample ID: SO-17322-043018-DR-006

Lab Sample ID: 240-94866-6

No Detections.

Client Sample ID: SO-17322-043018-DR-007

Lab Sample ID: 240-94866-7

No Detections.

Client Sample ID: SO-17322-043018-DR-008

Lab Sample ID: 240-94866-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	4200		280	130	ug/Kg	5	☼	8082A	Total/NA

Client Sample ID: SO-17322-043018-DR-009

Lab Sample ID: 240-94866-9

No Detections.

Client Sample ID: SO-17322-043018-DR-010

Lab Sample ID: 240-94866-10

No Detections.

Client Sample ID: SO-17322-043018-DR-011

Lab Sample ID: 240-94866-11

No Detections.

Client Sample ID: SO-17322-043018-DR-012

Lab Sample ID: 240-94866-12

No Detections.

Client Sample ID: SO-17322-043018-DR-013

Lab Sample ID: 240-94866-13

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-014

Lab Sample ID: 240-94866-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	110		55	26	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: SO-17322-043018-DR-015

Lab Sample ID: 240-94866-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	3000		530	240	ug/Kg	10	☼	8082A	Total/NA

Client Sample ID: SO-17322-043018-DR-016

Lab Sample ID: 240-94866-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	5800		280	130	ug/Kg	5	☼	8082A	Total/NA

Client Sample ID: SO-17322-043018-DR-017

Lab Sample ID: 240-94866-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	160		60	28	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: SO-17322-043018-DR-018

Lab Sample ID: 240-94866-18

No Detections.

Client Sample ID: SO-17322-043018-DR-019

Lab Sample ID: 240-94866-19

No Detections.

Client Sample ID: SO-17322-043018-DR-020

Lab Sample ID: 240-94866-20

No Detections.

Client Sample ID: SO-17322-043018-DR-021

Lab Sample ID: 240-94866-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	170		56	26	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: SO-17322-043018-DR-022

Lab Sample ID: 240-94866-22

No Detections.

Client Sample ID: SO-17322-043018-DR-023

Lab Sample ID: 240-94866-23

No Detections.

Client Sample ID: SO-17322-043018-DR-024

Lab Sample ID: 240-94866-24

No Detections.

Client Sample ID: SO-17322-043018-DR-025

Lab Sample ID: 240-94866-25

No Detections.

Client Sample ID: SO-17322-043018-DR-026

Lab Sample ID: 240-94866-26

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-026 (Continued)

Lab Sample ID: 240-94866-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aroclor-1254	310		56	26	ug/Kg	1		✱	8082A	Total/NA

Client Sample ID: SO-17322-043018-DR-027

Lab Sample ID: 240-94866-27

No Detections.

Client Sample ID: SO-17322-043018-DR-028

Lab Sample ID: 240-94866-28

No Detections.

Client Sample ID: SO-17322-043018-DR-029

Lab Sample ID: 240-94866-29

No Detections.

Client Sample ID: SO-17322-043018-DR-030

Lab Sample ID: 240-94866-30

No Detections.

Client Sample ID: SO-17322-043018-DR-031

Lab Sample ID: 240-94866-31

No Detections.

Client Sample ID: SO-17322-043018-DR-032

Lab Sample ID: 240-94866-32

No Detections.

Client Sample ID: SO-17322-043018-DR-033

Lab Sample ID: 240-94866-33

No Detections.

Client Sample ID: SO-17322-043018-DR-034

Lab Sample ID: 240-94866-34

No Detections.

Client Sample ID: SO-17322-043018-DR-035

Lab Sample ID: 240-94866-35

No Detections.

Client Sample ID: SO-17322-043018-DR-036

Lab Sample ID: 240-94866-36

No Detections.

Client Sample ID: SO-17322-043018-DR-037

Lab Sample ID: 240-94866-37

No Detections.

Client Sample ID: SO-17322-043018-DR-038

Lab Sample ID: 240-94866-38

No Detections.

Client Sample ID: SO-17322-043018-DR-039

Lab Sample ID: 240-94866-39

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-039 (Continued)

Lab Sample ID: 240-94866-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aroclor-1254	260		57	26	ug/Kg	1		✳	8082A	Total/NA

Client Sample ID: SO-17322-043018-DR-040

Lab Sample ID: 240-94866-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aroclor-1254	330		57	26	ug/Kg	1		✳	8082A	Total/NA

Client Sample ID: SO-17322-043018-DR-041

Lab Sample ID: 240-94866-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aroclor-1254	31	J	59	27	ug/Kg	1		✳	8082A	Total/NA

Client Sample ID: SO-17322-043018-DR-042

Lab Sample ID: 240-94866-42

No Detections.

Client Sample ID: SO-17322-043018-DR-043

Lab Sample ID: 240-94866-43

No Detections.

Client Sample ID: SO-17322-043018-DR-044

Lab Sample ID: 240-94866-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aroclor-1254	390		59	27	ug/Kg	1		✳	8082A	Total/NA

Client Sample ID: SO-17322-043018-DR-045

Lab Sample ID: 240-94866-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aroclor-1254	55	J	58	27	ug/Kg	1		✳	8082A	Total/NA

Client Sample ID: SO-17322-043018-DR-046

Lab Sample ID: 240-94866-46

No Detections.

Client Sample ID: SO-17322-043018-DR-047

Lab Sample ID: 240-94866-47

No Detections.

Client Sample ID: SO-17322-043018-DR-048

Lab Sample ID: 240-94866-48

No Detections.

Client Sample ID: SO-17322-043018-DR-049

Lab Sample ID: 240-94866-49

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN
3540C	Soxhlet Extraction	SW846	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-001

Date Collected: 04/30/18 08:25

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-1

Matrix: Solid

Percent Solids: 92.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	280	U	280	120	ug/Kg	☼	05/02/18 12:18	05/03/18 20:51	5
Aroclor-1221	280	U	280	130	ug/Kg	☼	05/02/18 12:18	05/03/18 20:51	5
Aroclor-1232	280	U	280	130	ug/Kg	☼	05/02/18 12:18	05/03/18 20:51	5
Aroclor-1242	280	U	280	100	ug/Kg	☼	05/02/18 12:18	05/03/18 20:51	5
Aroclor-1248	280	U	280	130	ug/Kg	☼	05/02/18 12:18	05/03/18 20:51	5
Aroclor-1254	4200		280	130	ug/Kg	☼	05/02/18 12:18	05/03/18 20:51	5
Aroclor-1260	280	U	280	120	ug/Kg	☼	05/02/18 12:18	05/03/18 20:51	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	92		14 - 128	05/02/18 12:18	05/03/18 20:51	5
DCB Decachlorobiphenyl	149	X	10 - 132	05/02/18 12:18	05/03/18 20:51	5

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-002

Date Collected: 04/30/18 08:27

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-2

Matrix: Solid

Percent Solids: 90.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	55	U	55	24	ug/Kg	☼	05/02/18 12:18	05/03/18 21:09	1
Aroclor-1221	55	U	55	26	ug/Kg	☼	05/02/18 12:18	05/03/18 21:09	1
Aroclor-1232	55	U	55	25	ug/Kg	☼	05/02/18 12:18	05/03/18 21:09	1
Aroclor-1242	55	U	55	21	ug/Kg	☼	05/02/18 12:18	05/03/18 21:09	1
Aroclor-1248	55	U	55	26	ug/Kg	☼	05/02/18 12:18	05/03/18 21:09	1
Aroclor-1254	100		55	25	ug/Kg	☼	05/02/18 12:18	05/03/18 21:09	1
Aroclor-1260	55	U	55	24	ug/Kg	☼	05/02/18 12:18	05/03/18 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		14 - 128	05/02/18 12:18	05/03/18 21:09	1
DCB Decachlorobiphenyl	116		10 - 132	05/02/18 12:18	05/03/18 21:09	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-003

Date Collected: 04/30/18 08:33

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-3

Matrix: Solid

Percent Solids: 89.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	58	U	58	26	ug/Kg	☼	05/02/18 12:18	05/03/18 21:28	1
Aroclor-1221	58	U	58	28	ug/Kg	☼	05/02/18 12:18	05/03/18 21:28	1
Aroclor-1232	58	U	58	27	ug/Kg	☼	05/02/18 12:18	05/03/18 21:28	1
Aroclor-1242	58	U	58	22	ug/Kg	☼	05/02/18 12:18	05/03/18 21:28	1
Aroclor-1248	58	U	58	28	ug/Kg	☼	05/02/18 12:18	05/03/18 21:28	1
Aroclor-1254	46	J	58	27	ug/Kg	☼	05/02/18 12:18	05/03/18 21:28	1
Aroclor-1260	58	U	58	26	ug/Kg	☼	05/02/18 12:18	05/03/18 21:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	101		14 - 128	05/02/18 12:18	05/03/18 21:28	1
DCB Decachlorobiphenyl	129		10 - 132	05/02/18 12:18	05/03/18 21:28	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-004

Date Collected: 04/30/18 08:35

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-4

Matrix: Solid

Percent Solids: 89.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	54	U	54	24	ug/Kg	☼	05/02/18 12:18	05/03/18 21:46	1
Aroclor-1221	54	U	54	26	ug/Kg	☼	05/02/18 12:18	05/03/18 21:46	1
Aroclor-1232	54	U	54	25	ug/Kg	☼	05/02/18 12:18	05/03/18 21:46	1
Aroclor-1242	54	U	54	20	ug/Kg	☼	05/02/18 12:18	05/03/18 21:46	1
Aroclor-1248	54	U	54	26	ug/Kg	☼	05/02/18 12:18	05/03/18 21:46	1
Aroclor-1254	54	U	54	25	ug/Kg	☼	05/02/18 12:18	05/03/18 21:46	1
Aroclor-1260	54	U	54	24	ug/Kg	☼	05/02/18 12:18	05/03/18 21:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		14 - 128				05/02/18 12:18	05/03/18 21:46	1
DCB Decachlorobiphenyl	88		10 - 132				05/02/18 12:18	05/03/18 21:46	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-005

Date Collected: 04/30/18 08:37

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-5

Matrix: Solid

Percent Solids: 89.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	54	U	54	24	ug/Kg	☼	05/02/18 12:18	05/03/18 22:04	1
Aroclor-1221	54	U	54	26	ug/Kg	☼	05/02/18 12:18	05/03/18 22:04	1
Aroclor-1232	54	U	54	25	ug/Kg	☼	05/02/18 12:18	05/03/18 22:04	1
Aroclor-1242	54	U	54	20	ug/Kg	☼	05/02/18 12:18	05/03/18 22:04	1
Aroclor-1248	54	U	54	26	ug/Kg	☼	05/02/18 12:18	05/03/18 22:04	1
Aroclor-1254	54	U	54	25	ug/Kg	☼	05/02/18 12:18	05/03/18 22:04	1
Aroclor-1260	54	U	54	24	ug/Kg	☼	05/02/18 12:18	05/03/18 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		14 - 128	05/02/18 12:18	05/03/18 22:04	1
DCB Decachlorobiphenyl	121		10 - 132	05/02/18 12:18	05/03/18 22:04	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-006

Date Collected: 04/30/18 08:43

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-6

Matrix: Solid

Percent Solids: 88.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	55	U	55	24	ug/Kg	☼	05/02/18 12:18	05/03/18 22:23	1
Aroclor-1221	55	U	55	26	ug/Kg	☼	05/02/18 12:18	05/03/18 22:23	1
Aroclor-1232	55	U	55	25	ug/Kg	☼	05/02/18 12:18	05/03/18 22:23	1
Aroclor-1242	55	U	55	21	ug/Kg	☼	05/02/18 12:18	05/03/18 22:23	1
Aroclor-1248	55	U	55	26	ug/Kg	☼	05/02/18 12:18	05/03/18 22:23	1
Aroclor-1254	55	U	55	25	ug/Kg	☼	05/02/18 12:18	05/03/18 22:23	1
Aroclor-1260	55	U	55	24	ug/Kg	☼	05/02/18 12:18	05/03/18 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	104		14 - 128	05/02/18 12:18	05/03/18 22:23	1
DCB Decachlorobiphenyl	110	p	10 - 132	05/02/18 12:18	05/03/18 22:23	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-007

Date Collected: 04/30/18 08:45

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-7

Matrix: Solid

Percent Solids: 89.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	55	U	55	24	ug/Kg	☼	05/02/18 12:18	05/03/18 22:41	1
Aroclor-1221	55	U	55	26	ug/Kg	☼	05/02/18 12:18	05/03/18 22:41	1
Aroclor-1232	55	U	55	25	ug/Kg	☼	05/02/18 12:18	05/03/18 22:41	1
Aroclor-1242	55	U	55	21	ug/Kg	☼	05/02/18 12:18	05/03/18 22:41	1
Aroclor-1248	55	U	55	26	ug/Kg	☼	05/02/18 12:18	05/03/18 22:41	1
Aroclor-1254	55	U	55	25	ug/Kg	☼	05/02/18 12:18	05/03/18 22:41	1
Aroclor-1260	55	U	55	24	ug/Kg	☼	05/02/18 12:18	05/03/18 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	106		14 - 128	05/02/18 12:18	05/03/18 22:41	1
DCB Decachlorobiphenyl	152	p X	10 - 132	05/02/18 12:18	05/03/18 22:41	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-008

Date Collected: 04/30/18 08:55

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-8

Matrix: Solid

Percent Solids: 90.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	280	U	280	120	ug/Kg	☼	05/02/18 12:18	05/03/18 22:59	5
Aroclor-1221	280	U	280	140	ug/Kg	☼	05/02/18 12:18	05/03/18 22:59	5
Aroclor-1232	280	U	280	130	ug/Kg	☼	05/02/18 12:18	05/03/18 22:59	5
Aroclor-1242	280	U	280	110	ug/Kg	☼	05/02/18 12:18	05/03/18 22:59	5
Aroclor-1248	280	U	280	140	ug/Kg	☼	05/02/18 12:18	05/03/18 22:59	5
Aroclor-1254	4200		280	130	ug/Kg	☼	05/02/18 12:18	05/03/18 22:59	5
Aroclor-1260	280	U	280	120	ug/Kg	☼	05/02/18 12:18	05/03/18 22:59	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		14 - 128	05/02/18 12:18	05/03/18 22:59	5
DCB Decachlorobiphenyl	268	p X	10 - 132	05/02/18 12:18	05/03/18 22:59	5

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-009

Date Collected: 04/30/18 08:57

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-9

Matrix: Solid

Percent Solids: 83.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	58	U	58	26	ug/Kg	☼	05/02/18 12:18	05/03/18 23:18	1
Aroclor-1221	58	U	58	28	ug/Kg	☼	05/02/18 12:18	05/03/18 23:18	1
Aroclor-1232	58	U	58	27	ug/Kg	☼	05/02/18 12:18	05/03/18 23:18	1
Aroclor-1242	58	U	58	22	ug/Kg	☼	05/02/18 12:18	05/03/18 23:18	1
Aroclor-1248	58	U	58	28	ug/Kg	☼	05/02/18 12:18	05/03/18 23:18	1
Aroclor-1254	58	U	58	27	ug/Kg	☼	05/02/18 12:18	05/03/18 23:18	1
Aroclor-1260	58	U	58	26	ug/Kg	☼	05/02/18 12:18	05/03/18 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		14 - 128				05/02/18 12:18	05/03/18 23:18	1
DCB Decachlorobiphenyl	138	X	10 - 132				05/02/18 12:18	05/03/18 23:18	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-010

Date Collected: 04/30/18 09:00

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-10

Matrix: Solid

Percent Solids: 84.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	58	U	58	25	ug/Kg	☼	05/02/18 12:18	05/03/18 23:36	1
Aroclor-1221	58	U	58	28	ug/Kg	☼	05/02/18 12:18	05/03/18 23:36	1
Aroclor-1232	58	U	58	27	ug/Kg	☼	05/02/18 12:18	05/03/18 23:36	1
Aroclor-1242	58	U	58	22	ug/Kg	☼	05/02/18 12:18	05/03/18 23:36	1
Aroclor-1248	58	U	58	28	ug/Kg	☼	05/02/18 12:18	05/03/18 23:36	1
Aroclor-1254	58	U	58	27	ug/Kg	☼	05/02/18 12:18	05/03/18 23:36	1
Aroclor-1260	58	U	58	25	ug/Kg	☼	05/02/18 12:18	05/03/18 23:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		14 - 128				05/02/18 12:18	05/03/18 23:36	1
DCB Decachlorobiphenyl	102		10 - 132				05/02/18 12:18	05/03/18 23:36	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-011

Date Collected: 04/30/18 09:05

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-11

Matrix: Solid

Percent Solids: 85.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	56	U	56	25	ug/Kg	☼	05/02/18 12:18	05/03/18 23:55	1
Aroclor-1221	56	U	56	27	ug/Kg	☼	05/02/18 12:18	05/03/18 23:55	1
Aroclor-1232	56	U	56	26	ug/Kg	☼	05/02/18 12:18	05/03/18 23:55	1
Aroclor-1242	56	U	56	21	ug/Kg	☼	05/02/18 12:18	05/03/18 23:55	1
Aroclor-1248	56	U	56	27	ug/Kg	☼	05/02/18 12:18	05/03/18 23:55	1
Aroclor-1254	56	U	56	26	ug/Kg	☼	05/02/18 12:18	05/03/18 23:55	1
Aroclor-1260	56	U	56	25	ug/Kg	☼	05/02/18 12:18	05/03/18 23:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	111		14 - 128	05/02/18 12:18	05/03/18 23:55	1
DCB Decachlorobiphenyl	136	X	10 - 132	05/02/18 12:18	05/03/18 23:55	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-012

Date Collected: 04/30/18 09:08

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-12

Matrix: Solid

Percent Solids: 88.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	59	U	59	26	ug/Kg	☼	05/02/18 12:18	05/04/18 00:13	1
Aroclor-1221	59	U	59	28	ug/Kg	☼	05/02/18 12:18	05/04/18 00:13	1
Aroclor-1232	59	U	59	27	ug/Kg	☼	05/02/18 12:18	05/04/18 00:13	1
Aroclor-1242	59	U	59	22	ug/Kg	☼	05/02/18 12:18	05/04/18 00:13	1
Aroclor-1248	59	U	59	28	ug/Kg	☼	05/02/18 12:18	05/04/18 00:13	1
Aroclor-1254	59	U	59	27	ug/Kg	☼	05/02/18 12:18	05/04/18 00:13	1
Aroclor-1260	59	U	59	26	ug/Kg	☼	05/02/18 12:18	05/04/18 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		14 - 128	05/02/18 12:18	05/04/18 00:13	1
DCB Decachlorobiphenyl	124	p	10 - 132	05/02/18 12:18	05/04/18 00:13	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-013

Date Collected: 04/30/18 09:10

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-13

Matrix: Solid

Percent Solids: 88.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	450	U	450	200	ug/Kg	☼	05/02/18 12:18	05/08/18 19:44	8
Aroclor-1221	450	U	450	220	ug/Kg	☼	05/02/18 12:18	05/08/18 19:44	8
Aroclor-1232	450	U	450	210	ug/Kg	☼	05/02/18 12:18	05/08/18 19:44	8
Aroclor-1242	450	U	450	170	ug/Kg	☼	05/02/18 12:18	05/08/18 19:44	8
Aroclor-1248	450	U	450	220	ug/Kg	☼	05/02/18 12:18	05/08/18 19:44	8
Aroclor-1254	450	U	450	210	ug/Kg	☼	05/02/18 12:18	05/08/18 19:44	8
Aroclor-1260	450	U	450	200	ug/Kg	☼	05/02/18 12:18	05/08/18 19:44	8
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	474	X	14 - 128				05/02/18 12:18	05/08/18 19:44	8
DCB Decachlorobiphenyl	592	X	10 - 132				05/02/18 12:18	05/08/18 19:44	8

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-014

Date Collected: 04/30/18 09:20

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-14

Matrix: Solid

Percent Solids: 90.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	55	U	55	24	ug/Kg	☼	05/02/18 12:18	05/04/18 00:50	1
Aroclor-1221	55	U	55	27	ug/Kg	☼	05/02/18 12:18	05/04/18 00:50	1
Aroclor-1232	55	U	55	26	ug/Kg	☼	05/02/18 12:18	05/04/18 00:50	1
Aroclor-1242	55	U	55	21	ug/Kg	☼	05/02/18 12:18	05/04/18 00:50	1
Aroclor-1248	55	U	55	27	ug/Kg	☼	05/02/18 12:18	05/04/18 00:50	1
Aroclor-1254	110		55	26	ug/Kg	☼	05/02/18 12:18	05/04/18 00:50	1
Aroclor-1260	55	U	55	24	ug/Kg	☼	05/02/18 12:18	05/04/18 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		14 - 128	05/02/18 12:18	05/04/18 00:50	1
DCB Decachlorobiphenyl	117		10 - 132	05/02/18 12:18	05/04/18 00:50	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-015

Date Collected: 04/30/18 09:22

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-15

Matrix: Solid

Percent Solids: 92.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	530	U	530	230	ug/Kg	☼	05/03/18 10:24	05/04/18 17:58	10
Aroclor-1221	530	U	530	250	ug/Kg	☼	05/03/18 10:24	05/04/18 17:58	10
Aroclor-1232	530	U	530	240	ug/Kg	☼	05/03/18 10:24	05/04/18 17:58	10
Aroclor-1242	530	U	530	200	ug/Kg	☼	05/03/18 10:24	05/04/18 17:58	10
Aroclor-1248	530	U	530	250	ug/Kg	☼	05/03/18 10:24	05/04/18 17:58	10
Aroclor-1254	3000		530	240	ug/Kg	☼	05/03/18 10:24	05/04/18 17:58	10
Aroclor-1260	530	U	530	230	ug/Kg	☼	05/03/18 10:24	05/04/18 17:58	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		14 - 128	05/03/18 10:24	05/04/18 17:58	10
DCB Decachlorobiphenyl	126	p	10 - 132	05/03/18 10:24	05/04/18 17:58	10

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-016

Date Collected: 04/30/18 09:25

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-16

Matrix: Solid

Percent Solids: 92.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	280	U	280	120	ug/Kg	☼	05/02/18 12:18	05/04/18 01:08	5
Aroclor-1221	280	U	280	130	ug/Kg	☼	05/02/18 12:18	05/04/18 01:08	5
Aroclor-1232	280	U	280	130	ug/Kg	☼	05/02/18 12:18	05/04/18 01:08	5
Aroclor-1242	280	U	280	110	ug/Kg	☼	05/02/18 12:18	05/04/18 01:08	5
Aroclor-1248	280	U	280	130	ug/Kg	☼	05/02/18 12:18	05/04/18 01:08	5
Aroclor-1254	5800		280	130	ug/Kg	☼	05/02/18 12:18	05/04/18 01:08	5
Aroclor-1260	280	U	280	120	ug/Kg	☼	05/02/18 12:18	05/04/18 01:08	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		14 - 128	05/02/18 12:18	05/04/18 01:08	5
DCB Decachlorobiphenyl	287	X	10 - 132	05/02/18 12:18	05/04/18 01:08	5

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-017

Date Collected: 04/30/18 09:27

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-17

Matrix: Solid

Percent Solids: 85.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	60	U	60	26	ug/Kg	☼	05/02/18 12:18	05/04/18 01:26	1
Aroclor-1221	60	U	60	29	ug/Kg	☼	05/02/18 12:18	05/04/18 01:26	1
Aroclor-1232	60	U	60	28	ug/Kg	☼	05/02/18 12:18	05/04/18 01:26	1
Aroclor-1242	60	U	60	23	ug/Kg	☼	05/02/18 12:18	05/04/18 01:26	1
Aroclor-1248	60	U	60	29	ug/Kg	☼	05/02/18 12:18	05/04/18 01:26	1
Aroclor-1254	160		60	28	ug/Kg	☼	05/02/18 12:18	05/04/18 01:26	1
Aroclor-1260	60	U	60	26	ug/Kg	☼	05/02/18 12:18	05/04/18 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	97		14 - 128	05/02/18 12:18	05/04/18 01:26	1
DCB Decachlorobiphenyl	114		10 - 132	05/02/18 12:18	05/04/18 01:26	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-018

Date Collected: 04/30/18 09:30

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-18

Matrix: Solid

Percent Solids: 86.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	55	U	55	24	ug/Kg	☼	05/02/18 12:18	05/04/18 01:45	1
Aroclor-1221	55	U	55	27	ug/Kg	☼	05/02/18 12:18	05/04/18 01:45	1
Aroclor-1232	55	U	55	25	ug/Kg	☼	05/02/18 12:18	05/04/18 01:45	1
Aroclor-1242	55	U	55	21	ug/Kg	☼	05/02/18 12:18	05/04/18 01:45	1
Aroclor-1248	55	U	55	27	ug/Kg	☼	05/02/18 12:18	05/04/18 01:45	1
Aroclor-1254	55	U	55	25	ug/Kg	☼	05/02/18 12:18	05/04/18 01:45	1
Aroclor-1260	55	U	55	24	ug/Kg	☼	05/02/18 12:18	05/04/18 01:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		14 - 128	05/02/18 12:18	05/04/18 01:45	1
DCB Decachlorobiphenyl	102		10 - 132	05/02/18 12:18	05/04/18 01:45	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-019

Date Collected: 04/30/18 09:33

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-19

Matrix: Solid

Percent Solids: 90.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	56	U	56	25	ug/Kg	☼	05/02/18 12:18	05/04/18 02:58	1
Aroclor-1221	56	U	56	27	ug/Kg	☼	05/02/18 12:18	05/04/18 02:58	1
Aroclor-1232	56	U	56	26	ug/Kg	☼	05/02/18 12:18	05/04/18 02:58	1
Aroclor-1242	56	U	56	21	ug/Kg	☼	05/02/18 12:18	05/04/18 02:58	1
Aroclor-1248	56	U	56	27	ug/Kg	☼	05/02/18 12:18	05/04/18 02:58	1
Aroclor-1254	56	U	56	26	ug/Kg	☼	05/02/18 12:18	05/04/18 02:58	1
Aroclor-1260	56	U	56	25	ug/Kg	☼	05/02/18 12:18	05/04/18 02:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	101		14 - 128	05/02/18 12:18	05/04/18 02:58	1
DCB Decachlorobiphenyl	132		10 - 132	05/02/18 12:18	05/04/18 02:58	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-020

Date Collected: 04/30/18 09:35

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-20

Matrix: Solid

Percent Solids: 90.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	55	U	55	24	ug/Kg	☼	05/02/18 12:18	05/04/18 03:17	1
Aroclor-1221	55	U	55	27	ug/Kg	☼	05/02/18 12:18	05/04/18 03:17	1
Aroclor-1232	55	U	55	25	ug/Kg	☼	05/02/18 12:18	05/04/18 03:17	1
Aroclor-1242	55	U	55	21	ug/Kg	☼	05/02/18 12:18	05/04/18 03:17	1
Aroclor-1248	55	U	55	27	ug/Kg	☼	05/02/18 12:18	05/04/18 03:17	1
Aroclor-1254	55	U	55	25	ug/Kg	☼	05/02/18 12:18	05/04/18 03:17	1
Aroclor-1260	55	U	55	24	ug/Kg	☼	05/02/18 12:18	05/04/18 03:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98		14 - 128				05/02/18 12:18	05/04/18 03:17	1
DCB Decachlorobiphenyl	116		10 - 132				05/02/18 12:18	05/04/18 03:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-021

Date Collected: 04/30/18 09:45

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-21

Matrix: Solid

Percent Solids: 88.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	56	U	56	24	ug/Kg	☼	05/03/18 08:13	05/04/18 20:33	1
Aroclor-1221	56	U	56	27	ug/Kg	☼	05/03/18 08:13	05/04/18 20:33	1
Aroclor-1232	56	U	56	26	ug/Kg	☼	05/03/18 08:13	05/04/18 20:33	1
Aroclor-1242	56	U	56	21	ug/Kg	☼	05/03/18 08:13	05/04/18 20:33	1
Aroclor-1248	56	U	56	27	ug/Kg	☼	05/03/18 08:13	05/04/18 20:33	1
Aroclor-1254	170		56	26	ug/Kg	☼	05/03/18 08:13	05/04/18 20:33	1
Aroclor-1260	56	U	56	24	ug/Kg	☼	05/03/18 08:13	05/04/18 20:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		14 - 128	05/03/18 08:13	05/04/18 20:33	1
DCB Decachlorobiphenyl	84		10 - 132	05/03/18 08:13	05/04/18 20:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-022

Date Collected: 04/30/18 09:50

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-22

Matrix: Solid

Percent Solids: 87.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	57	U	57	25	ug/Kg	☼	05/03/18 08:13	05/04/18 20:52	1
Aroclor-1221	57	U	57	27	ug/Kg	☼	05/03/18 08:13	05/04/18 20:52	1
Aroclor-1232	57	U	57	26	ug/Kg	☼	05/03/18 08:13	05/04/18 20:52	1
Aroclor-1242	57	U	57	22	ug/Kg	☼	05/03/18 08:13	05/04/18 20:52	1
Aroclor-1248	57	U	57	27	ug/Kg	☼	05/03/18 08:13	05/04/18 20:52	1
Aroclor-1254	57	U	57	26	ug/Kg	☼	05/03/18 08:13	05/04/18 20:52	1
Aroclor-1260	57	U	57	25	ug/Kg	☼	05/03/18 08:13	05/04/18 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		14 - 128	05/03/18 08:13	05/04/18 20:52	1
DCB Decachlorobiphenyl	92		10 - 132	05/03/18 08:13	05/04/18 20:52	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-023

Date Collected: 04/30/18 09:53

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-23

Matrix: Solid

Percent Solids: 89.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	55	U	55	24	ug/Kg	☼	05/03/18 08:13	05/04/18 21:51	1
Aroclor-1221	55	U	55	27	ug/Kg	☼	05/03/18 08:13	05/04/18 21:51	1
Aroclor-1232	55	U	55	25	ug/Kg	☼	05/03/18 08:13	05/04/18 21:51	1
Aroclor-1242	55	U	55	21	ug/Kg	☼	05/03/18 08:13	05/04/18 21:51	1
Aroclor-1248	55	U	55	27	ug/Kg	☼	05/03/18 08:13	05/04/18 21:51	1
Aroclor-1254	55	U	55	25	ug/Kg	☼	05/03/18 08:13	05/04/18 21:51	1
Aroclor-1260	55	U	55	24	ug/Kg	☼	05/03/18 08:13	05/04/18 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		14 - 128	05/03/18 08:13	05/04/18 21:51	1
DCB Decachlorobiphenyl	69		10 - 132	05/03/18 08:13	05/04/18 21:51	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-024

Date Collected: 04/30/18 09:55

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-24

Matrix: Solid

Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	57	U	57	25	ug/Kg	☼	05/03/18 08:13	05/04/18 22:10	1
Aroclor-1221	57	U	57	27	ug/Kg	☼	05/03/18 08:13	05/04/18 22:10	1
Aroclor-1232	57	U	57	26	ug/Kg	☼	05/03/18 08:13	05/04/18 22:10	1
Aroclor-1242	57	U	57	22	ug/Kg	☼	05/03/18 08:13	05/04/18 22:10	1
Aroclor-1248	57	U	57	27	ug/Kg	☼	05/03/18 08:13	05/04/18 22:10	1
Aroclor-1254	57	U	57	26	ug/Kg	☼	05/03/18 08:13	05/04/18 22:10	1
Aroclor-1260	57	U	57	25	ug/Kg	☼	05/03/18 08:13	05/04/18 22:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		14 - 128	05/03/18 08:13	05/04/18 22:10	1
DCB Decachlorobiphenyl	98		10 - 132	05/03/18 08:13	05/04/18 22:10	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-025

Date Collected: 04/30/18 10:00

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-25

Matrix: Solid

Percent Solids: 87.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	55	U	55	24	ug/Kg	☼	05/03/18 08:13	05/04/18 22:30	1
Aroclor-1221	55	U	55	26	ug/Kg	☼	05/03/18 08:13	05/04/18 22:30	1
Aroclor-1232	55	U	55	25	ug/Kg	☼	05/03/18 08:13	05/04/18 22:30	1
Aroclor-1242	55	U	55	21	ug/Kg	☼	05/03/18 08:13	05/04/18 22:30	1
Aroclor-1248	55	U	55	26	ug/Kg	☼	05/03/18 08:13	05/04/18 22:30	1
Aroclor-1254	55	U	55	25	ug/Kg	☼	05/03/18 08:13	05/04/18 22:30	1
Aroclor-1260	55	U	55	24	ug/Kg	☼	05/03/18 08:13	05/04/18 22:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		14 - 128	05/03/18 08:13	05/04/18 22:30	1
DCB Decachlorobiphenyl	55		10 - 132	05/03/18 08:13	05/04/18 22:30	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-026

Date Collected: 04/30/18 10:10

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-26

Matrix: Solid

Percent Solids: 87.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	56	U	56	25	ug/Kg	☼	05/03/18 08:13	05/04/18 22:49	1
Aroclor-1221	56	U	56	27	ug/Kg	☼	05/03/18 08:13	05/04/18 22:49	1
Aroclor-1232	56	U	56	26	ug/Kg	☼	05/03/18 08:13	05/04/18 22:49	1
Aroclor-1242	56	U	56	21	ug/Kg	☼	05/03/18 08:13	05/04/18 22:49	1
Aroclor-1248	56	U	56	27	ug/Kg	☼	05/03/18 08:13	05/04/18 22:49	1
Aroclor-1254	310		56	26	ug/Kg	☼	05/03/18 08:13	05/04/18 22:49	1
Aroclor-1260	56	U	56	25	ug/Kg	☼	05/03/18 08:13	05/04/18 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		14 - 128	05/03/18 08:13	05/04/18 22:49	1
DCB Decachlorobiphenyl	96		10 - 132	05/03/18 08:13	05/04/18 22:49	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-027

Date Collected: 04/30/18 10:12

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-27

Matrix: Solid

Percent Solids: 90.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	55	U	55	24	ug/Kg	☼	05/03/18 08:13	05/04/18 23:09	1
Aroclor-1221	55	U	55	27	ug/Kg	☼	05/03/18 08:13	05/04/18 23:09	1
Aroclor-1232	55	U	55	25	ug/Kg	☼	05/03/18 08:13	05/04/18 23:09	1
Aroclor-1242	55	U	55	21	ug/Kg	☼	05/03/18 08:13	05/04/18 23:09	1
Aroclor-1248	55	U	55	27	ug/Kg	☼	05/03/18 08:13	05/04/18 23:09	1
Aroclor-1254	55	U	55	25	ug/Kg	☼	05/03/18 08:13	05/04/18 23:09	1
Aroclor-1260	55	U	55	24	ug/Kg	☼	05/03/18 08:13	05/04/18 23:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		14 - 128				05/03/18 08:13	05/04/18 23:09	1
DCB Decachlorobiphenyl	101		10 - 132				05/03/18 08:13	05/04/18 23:09	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-028

Date Collected: 04/30/18 10:17

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-28

Matrix: Solid

Percent Solids: 84.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	57	U	57	25	ug/Kg	☼	05/03/18 08:13	05/04/18 23:28	1
Aroclor-1221	57	U	57	28	ug/Kg	☼	05/03/18 08:13	05/04/18 23:28	1
Aroclor-1232	57	U	57	26	ug/Kg	☼	05/03/18 08:13	05/04/18 23:28	1
Aroclor-1242	57	U	57	22	ug/Kg	☼	05/03/18 08:13	05/04/18 23:28	1
Aroclor-1248	57	U	57	28	ug/Kg	☼	05/03/18 08:13	05/04/18 23:28	1
Aroclor-1254	57	U	57	26	ug/Kg	☼	05/03/18 08:13	05/04/18 23:28	1
Aroclor-1260	57	U	57	25	ug/Kg	☼	05/03/18 08:13	05/04/18 23:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		14 - 128				05/03/18 08:13	05/04/18 23:28	1
DCB Decachlorobiphenyl	97		10 - 132				05/03/18 08:13	05/04/18 23:28	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-029

Date Collected: 04/30/18 10:20

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-29

Matrix: Solid

Percent Solids: 90.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	55	U	55	24	ug/Kg	☼	05/03/18 08:13	05/04/18 23:48	1
Aroclor-1221	55	U	55	26	ug/Kg	☼	05/03/18 08:13	05/04/18 23:48	1
Aroclor-1232	55	U	55	25	ug/Kg	☼	05/03/18 08:13	05/04/18 23:48	1
Aroclor-1242	55	U	55	21	ug/Kg	☼	05/03/18 08:13	05/04/18 23:48	1
Aroclor-1248	55	U	55	26	ug/Kg	☼	05/03/18 08:13	05/04/18 23:48	1
Aroclor-1254	55	U	55	25	ug/Kg	☼	05/03/18 08:13	05/04/18 23:48	1
Aroclor-1260	55	U	55	24	ug/Kg	☼	05/03/18 08:13	05/04/18 23:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		14 - 128	05/03/18 08:13	05/04/18 23:48	1
DCB Decachlorobiphenyl	97		10 - 132	05/03/18 08:13	05/04/18 23:48	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-030

Date Collected: 04/30/18 10:23

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-30

Matrix: Solid

Percent Solids: 89.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	58	U	58	26	ug/Kg	☼	05/03/18 08:13	05/05/18 00:07	1
Aroclor-1221	58	U	58	28	ug/Kg	☼	05/03/18 08:13	05/05/18 00:07	1
Aroclor-1232	58	U	58	27	ug/Kg	☼	05/03/18 08:13	05/05/18 00:07	1
Aroclor-1242	58	U	58	22	ug/Kg	☼	05/03/18 08:13	05/05/18 00:07	1
Aroclor-1248	58	U	58	28	ug/Kg	☼	05/03/18 08:13	05/05/18 00:07	1
Aroclor-1254	58	U	58	27	ug/Kg	☼	05/03/18 08:13	05/05/18 00:07	1
Aroclor-1260	58	U	58	26	ug/Kg	☼	05/03/18 08:13	05/05/18 00:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		14 - 128				05/03/18 08:13	05/05/18 00:07	1
DCB Decachlorobiphenyl	90		10 - 132				05/03/18 08:13	05/05/18 00:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-031

Date Collected: 04/30/18 10:25

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-31

Matrix: Solid

Percent Solids: 87.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	55	U	55	24	ug/Kg	☼	05/03/18 08:13	05/05/18 00:26	1
Aroclor-1221	55	U	55	26	ug/Kg	☼	05/03/18 08:13	05/05/18 00:26	1
Aroclor-1232	55	U	55	25	ug/Kg	☼	05/03/18 08:13	05/05/18 00:26	1
Aroclor-1242	55	U	55	21	ug/Kg	☼	05/03/18 08:13	05/05/18 00:26	1
Aroclor-1248	55	U	55	26	ug/Kg	☼	05/03/18 08:13	05/05/18 00:26	1
Aroclor-1254	55	U	55	25	ug/Kg	☼	05/03/18 08:13	05/05/18 00:26	1
Aroclor-1260	55	U	55	24	ug/Kg	☼	05/03/18 08:13	05/05/18 00:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		14 - 128				05/03/18 08:13	05/05/18 00:26	1
DCB Decachlorobiphenyl	88		10 - 132				05/03/18 08:13	05/05/18 00:26	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-032

Date Collected: 04/30/18 10:27

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-32

Matrix: Solid

Percent Solids: 88.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	59	U	59	26	ug/Kg	☼	05/03/18 08:13	05/05/18 00:46	1
Aroclor-1221	59	U	59	28	ug/Kg	☼	05/03/18 08:13	05/05/18 00:46	1
Aroclor-1232	59	U	59	27	ug/Kg	☼	05/03/18 08:13	05/05/18 00:46	1
Aroclor-1242	59	U	59	22	ug/Kg	☼	05/03/18 08:13	05/05/18 00:46	1
Aroclor-1248	59	U	59	28	ug/Kg	☼	05/03/18 08:13	05/05/18 00:46	1
Aroclor-1254	59	U	59	27	ug/Kg	☼	05/03/18 08:13	05/05/18 00:46	1
Aroclor-1260	59	U	59	26	ug/Kg	☼	05/03/18 08:13	05/05/18 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		14 - 128	05/03/18 08:13	05/05/18 00:46	1
DCB Decachlorobiphenyl	84		10 - 132	05/03/18 08:13	05/05/18 00:46	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-033

Date Collected: 04/30/18 10:40

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-33

Matrix: Solid

Percent Solids: 89.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	54	U	54	24	ug/Kg	☼	05/03/18 08:13	05/05/18 01:05	1
Aroclor-1221	54	U	54	26	ug/Kg	☼	05/03/18 08:13	05/05/18 01:05	1
Aroclor-1232	54	U	54	25	ug/Kg	☼	05/03/18 08:13	05/05/18 01:05	1
Aroclor-1242	54	U	54	21	ug/Kg	☼	05/03/18 08:13	05/05/18 01:05	1
Aroclor-1248	54	U	54	26	ug/Kg	☼	05/03/18 08:13	05/05/18 01:05	1
Aroclor-1254	54	U	54	25	ug/Kg	☼	05/03/18 08:13	05/05/18 01:05	1
Aroclor-1260	54	U	54	24	ug/Kg	☼	05/03/18 08:13	05/05/18 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		14 - 128				05/03/18 08:13	05/05/18 01:05	1
DCB Decachlorobiphenyl	95		10 - 132				05/03/18 08:13	05/05/18 01:05	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-034

Date Collected: 04/30/18 10:42

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-34

Matrix: Solid

Percent Solids: 89.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	55	U	55	24	ug/Kg	☼	05/03/18 08:13	05/05/18 01:25	1
Aroclor-1221	55	U	55	26	ug/Kg	☼	05/03/18 08:13	05/05/18 01:25	1
Aroclor-1232	55	U	55	25	ug/Kg	☼	05/03/18 08:13	05/05/18 01:25	1
Aroclor-1242	55	U	55	21	ug/Kg	☼	05/03/18 08:13	05/05/18 01:25	1
Aroclor-1248	55	U	55	26	ug/Kg	☼	05/03/18 08:13	05/05/18 01:25	1
Aroclor-1254	55	U	55	25	ug/Kg	☼	05/03/18 08:13	05/05/18 01:25	1
Aroclor-1260	55	U	55	24	ug/Kg	☼	05/03/18 08:13	05/05/18 01:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		14 - 128	05/03/18 08:13	05/05/18 01:25	1
DCB Decachlorobiphenyl	102		10 - 132	05/03/18 08:13	05/05/18 01:25	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-035

Date Collected: 04/30/18 10:47

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-35

Matrix: Solid

Percent Solids: 84.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	62	U	62	27	ug/Kg	☼	05/03/18 08:13	05/05/18 01:44	1
Aroclor-1221	62	U	62	30	ug/Kg	☼	05/03/18 08:13	05/05/18 01:44	1
Aroclor-1232	62	U	62	28	ug/Kg	☼	05/03/18 08:13	05/05/18 01:44	1
Aroclor-1242	62	U	62	23	ug/Kg	☼	05/03/18 08:13	05/05/18 01:44	1
Aroclor-1248	62	U	62	30	ug/Kg	☼	05/03/18 08:13	05/05/18 01:44	1
Aroclor-1254	62	U	62	28	ug/Kg	☼	05/03/18 08:13	05/05/18 01:44	1
Aroclor-1260	62	U	62	27	ug/Kg	☼	05/03/18 08:13	05/05/18 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		14 - 128	05/03/18 08:13	05/05/18 01:44	1
DCB Decachlorobiphenyl	90		10 - 132	05/03/18 08:13	05/05/18 01:44	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-036

Date Collected: 04/30/18 10:50

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-36

Matrix: Solid

Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	59	U	59	26	ug/Kg	☼	05/03/18 08:13	05/05/18 03:02	1
Aroclor-1221	59	U	59	29	ug/Kg	☼	05/03/18 08:13	05/05/18 03:02	1
Aroclor-1232	59	U	59	27	ug/Kg	☼	05/03/18 08:13	05/05/18 03:02	1
Aroclor-1242	59	U	59	23	ug/Kg	☼	05/03/18 08:13	05/05/18 03:02	1
Aroclor-1248	59	U	59	29	ug/Kg	☼	05/03/18 08:13	05/05/18 03:02	1
Aroclor-1254	59	U	59	27	ug/Kg	☼	05/03/18 08:13	05/05/18 03:02	1
Aroclor-1260	59	U	59	26	ug/Kg	☼	05/03/18 08:13	05/05/18 03:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	99		14 - 128	05/03/18 08:13	05/05/18 03:02	1
DCB Decachlorobiphenyl	116		10 - 132	05/03/18 08:13	05/05/18 03:02	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-037

Date Collected: 04/30/18 10:53

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-37

Matrix: Solid

Percent Solids: 89.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	54	U	54	24	ug/Kg	☼	05/03/18 08:13	05/05/18 03:22	1
Aroclor-1221	54	U	54	26	ug/Kg	☼	05/03/18 08:13	05/05/18 03:22	1
Aroclor-1232	54	U	54	25	ug/Kg	☼	05/03/18 08:13	05/05/18 03:22	1
Aroclor-1242	54	U	54	21	ug/Kg	☼	05/03/18 08:13	05/05/18 03:22	1
Aroclor-1248	54	U	54	26	ug/Kg	☼	05/03/18 08:13	05/05/18 03:22	1
Aroclor-1254	54	U	54	25	ug/Kg	☼	05/03/18 08:13	05/05/18 03:22	1
Aroclor-1260	54	U	54	24	ug/Kg	☼	05/03/18 08:13	05/05/18 03:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		14 - 128				05/03/18 08:13	05/05/18 03:22	1
DCB Decachlorobiphenyl	108		10 - 132				05/03/18 08:13	05/05/18 03:22	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-038

Date Collected: 04/30/18 10:55

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-38

Matrix: Solid

Percent Solids: 93.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	53	U	53	23	ug/Kg	☼	05/03/18 08:13	05/05/18 03:41	1
Aroclor-1221	53	U	53	26	ug/Kg	☼	05/03/18 08:13	05/05/18 03:41	1
Aroclor-1232	53	U	53	24	ug/Kg	☼	05/03/18 08:13	05/05/18 03:41	1
Aroclor-1242	53	U	53	20	ug/Kg	☼	05/03/18 08:13	05/05/18 03:41	1
Aroclor-1248	53	U	53	26	ug/Kg	☼	05/03/18 08:13	05/05/18 03:41	1
Aroclor-1254	53	U	53	24	ug/Kg	☼	05/03/18 08:13	05/05/18 03:41	1
Aroclor-1260	53	U	53	23	ug/Kg	☼	05/03/18 08:13	05/05/18 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		14 - 128	05/03/18 08:13	05/05/18 03:41	1
DCB Decachlorobiphenyl	77		10 - 132	05/03/18 08:13	05/05/18 03:41	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-039

Date Collected: 04/30/18 11:00

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-39

Matrix: Solid

Percent Solids: 88.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	57	U	57	25	ug/Kg	☼	05/03/18 08:13	05/05/18 04:01	1
Aroclor-1221	57	U	57	27	ug/Kg	☼	05/03/18 08:13	05/05/18 04:01	1
Aroclor-1232	57	U	57	26	ug/Kg	☼	05/03/18 08:13	05/05/18 04:01	1
Aroclor-1242	57	U	57	22	ug/Kg	☼	05/03/18 08:13	05/05/18 04:01	1
Aroclor-1248	57	U	57	27	ug/Kg	☼	05/03/18 08:13	05/05/18 04:01	1
Aroclor-1254	260		57	26	ug/Kg	☼	05/03/18 08:13	05/05/18 04:01	1
Aroclor-1260	57	U	57	25	ug/Kg	☼	05/03/18 08:13	05/05/18 04:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		14 - 128	05/03/18 08:13	05/05/18 04:01	1
DCB Decachlorobiphenyl	79		10 - 132	05/03/18 08:13	05/05/18 04:01	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-040

Date Collected: 04/30/18 11:05

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-40

Matrix: Solid

Percent Solids: 88.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	57	U	57	25	ug/Kg	☼	05/03/18 08:13	05/05/18 04:20	1
Aroclor-1221	57	U	57	28	ug/Kg	☼	05/03/18 08:13	05/05/18 04:20	1
Aroclor-1232	57	U	57	26	ug/Kg	☼	05/03/18 08:13	05/05/18 04:20	1
Aroclor-1242	57	U	57	22	ug/Kg	☼	05/03/18 08:13	05/05/18 04:20	1
Aroclor-1248	57	U	57	28	ug/Kg	☼	05/03/18 08:13	05/05/18 04:20	1
Aroclor-1254	330		57	26	ug/Kg	☼	05/03/18 08:13	05/05/18 04:20	1
Aroclor-1260	57	U	57	25	ug/Kg	☼	05/03/18 08:13	05/05/18 04:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		14 - 128	05/03/18 08:13	05/05/18 04:20	1
DCB Decachlorobiphenyl	85		10 - 132	05/03/18 08:13	05/05/18 04:20	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-041

Date Collected: 04/30/18 11:07

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-41

Matrix: Solid

Percent Solids: 85.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	59	U	59	26	ug/Kg	☼	05/03/18 08:49	05/04/18 13:41	1
Aroclor-1221	59	U	59	28	ug/Kg	☼	05/03/18 08:49	05/04/18 13:41	1
Aroclor-1232	59	U	59	27	ug/Kg	☼	05/03/18 08:49	05/04/18 13:41	1
Aroclor-1242	59	U	59	22	ug/Kg	☼	05/03/18 08:49	05/04/18 13:41	1
Aroclor-1248	59	U	59	28	ug/Kg	☼	05/03/18 08:49	05/04/18 13:41	1
Aroclor-1254	31	J	59	27	ug/Kg	☼	05/03/18 08:49	05/04/18 13:41	1
Aroclor-1260	59	U	59	26	ug/Kg	☼	05/03/18 08:49	05/04/18 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		14 - 128	05/03/18 08:49	05/04/18 13:41	1
DCB Decachlorobiphenyl	112		10 - 132	05/03/18 08:49	05/04/18 13:41	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-042

Date Collected: 04/30/18 11:10

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-42

Matrix: Solid

Percent Solids: 89.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	56	U	56	24	ug/Kg	☼	05/03/18 08:49	05/04/18 13:59	1
Aroclor-1221	56	U	56	27	ug/Kg	☼	05/03/18 08:49	05/04/18 13:59	1
Aroclor-1232	56	U	56	26	ug/Kg	☼	05/03/18 08:49	05/04/18 13:59	1
Aroclor-1242	56	U	56	21	ug/Kg	☼	05/03/18 08:49	05/04/18 13:59	1
Aroclor-1248	56	U	56	27	ug/Kg	☼	05/03/18 08:49	05/04/18 13:59	1
Aroclor-1254	56	U	56	26	ug/Kg	☼	05/03/18 08:49	05/04/18 13:59	1
Aroclor-1260	56	U	56	24	ug/Kg	☼	05/03/18 08:49	05/04/18 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	92		14 - 128	05/03/18 08:49	05/04/18 13:59	1
DCB Decachlorobiphenyl	94		10 - 132	05/03/18 08:49	05/04/18 13:59	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-043

Date Collected: 04/30/18 11:12

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-43

Matrix: Solid

Percent Solids: 87.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	58	U	58	26	ug/Kg	☼	05/03/18 08:49	05/04/18 14:18	1
Aroclor-1221	58	U	58	28	ug/Kg	☼	05/03/18 08:49	05/04/18 14:18	1
Aroclor-1232	58	U	58	27	ug/Kg	☼	05/03/18 08:49	05/04/18 14:18	1
Aroclor-1242	58	U	58	22	ug/Kg	☼	05/03/18 08:49	05/04/18 14:18	1
Aroclor-1248	58	U	58	28	ug/Kg	☼	05/03/18 08:49	05/04/18 14:18	1
Aroclor-1254	58	U	58	27	ug/Kg	☼	05/03/18 08:49	05/04/18 14:18	1
Aroclor-1260	58	U	58	26	ug/Kg	☼	05/03/18 08:49	05/04/18 14:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	92		14 - 128				05/03/18 08:49	05/04/18 14:18	1
DCB Decachlorobiphenyl	99	p	10 - 132				05/03/18 08:49	05/04/18 14:18	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-044

Date Collected: 04/30/18 11:25

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-44

Matrix: Solid

Percent Solids: 88.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	59	U	59	26	ug/Kg	☼	05/03/18 08:49	05/04/18 14:36	1
Aroclor-1221	59	U	59	28	ug/Kg	☼	05/03/18 08:49	05/04/18 14:36	1
Aroclor-1232	59	U	59	27	ug/Kg	☼	05/03/18 08:49	05/04/18 14:36	1
Aroclor-1242	59	U	59	23	ug/Kg	☼	05/03/18 08:49	05/04/18 14:36	1
Aroclor-1248	59	U	59	28	ug/Kg	☼	05/03/18 08:49	05/04/18 14:36	1
Aroclor-1254	390		59	27	ug/Kg	☼	05/03/18 08:49	05/04/18 14:36	1
Aroclor-1260	59	U	59	26	ug/Kg	☼	05/03/18 08:49	05/04/18 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		14 - 128	05/03/18 08:49	05/04/18 14:36	1
DCB Decachlorobiphenyl	101		10 - 132	05/03/18 08:49	05/04/18 14:36	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-045

Date Collected: 04/30/18 11:30

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-45

Matrix: Solid

Percent Solids: 85.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	58	U	58	26	ug/Kg	☼	05/03/18 08:49	05/04/18 16:26	1
Aroclor-1221	58	U	58	28	ug/Kg	☼	05/03/18 08:49	05/04/18 16:26	1
Aroclor-1232	58	U	58	27	ug/Kg	☼	05/03/18 08:49	05/04/18 16:26	1
Aroclor-1242	58	U	58	22	ug/Kg	☼	05/03/18 08:49	05/04/18 16:26	1
Aroclor-1248	58	U	58	28	ug/Kg	☼	05/03/18 08:49	05/04/18 16:26	1
Aroclor-1254	55	J	58	27	ug/Kg	☼	05/03/18 08:49	05/04/18 16:26	1
Aroclor-1260	58	U	58	26	ug/Kg	☼	05/03/18 08:49	05/04/18 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		14 - 128	05/03/18 08:49	05/04/18 16:26	1
DCB Decachlorobiphenyl	163	X	10 - 132	05/03/18 08:49	05/04/18 16:26	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-046

Date Collected: 04/30/18 11:32

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-46

Matrix: Solid

Percent Solids: 93.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	56	U	56	25	ug/Kg	☼	05/03/18 08:49	05/04/18 16:44	1
Aroclor-1221	56	U	56	27	ug/Kg	☼	05/03/18 08:49	05/04/18 16:44	1
Aroclor-1232	56	U	56	26	ug/Kg	☼	05/03/18 08:49	05/04/18 16:44	1
Aroclor-1242	56	U	56	21	ug/Kg	☼	05/03/18 08:49	05/04/18 16:44	1
Aroclor-1248	56	U	56	27	ug/Kg	☼	05/03/18 08:49	05/04/18 16:44	1
Aroclor-1254	56	U	56	26	ug/Kg	☼	05/03/18 08:49	05/04/18 16:44	1
Aroclor-1260	56	U	56	25	ug/Kg	☼	05/03/18 08:49	05/04/18 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		14 - 128	05/03/18 08:49	05/04/18 16:44	1
DCB Decachlorobiphenyl	396	X	10 - 132	05/03/18 08:49	05/04/18 16:44	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-047

Date Collected: 04/30/18 11:35

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-47

Matrix: Solid

Percent Solids: 88.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	59	U	59	26	ug/Kg	☼	05/03/18 08:49	05/04/18 17:03	1
Aroclor-1221	59	U	59	28	ug/Kg	☼	05/03/18 08:49	05/04/18 17:03	1
Aroclor-1232	59	U	59	27	ug/Kg	☼	05/03/18 08:49	05/04/18 17:03	1
Aroclor-1242	59	U	59	22	ug/Kg	☼	05/03/18 08:49	05/04/18 17:03	1
Aroclor-1248	59	U	59	28	ug/Kg	☼	05/03/18 08:49	05/04/18 17:03	1
Aroclor-1254	59	U	59	27	ug/Kg	☼	05/03/18 08:49	05/04/18 17:03	1
Aroclor-1260	59	U	59	26	ug/Kg	☼	05/03/18 08:49	05/04/18 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		14 - 128	05/03/18 08:49	05/04/18 17:03	1
DCB Decachlorobiphenyl	81		10 - 132	05/03/18 08:49	05/04/18 17:03	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-048

Date Collected: 04/30/18 11:40

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-48

Matrix: Solid

Percent Solids: 89.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	54	U	54	24	ug/Kg	☼	05/03/18 08:49	05/04/18 17:21	1
Aroclor-1221	54	U	54	26	ug/Kg	☼	05/03/18 08:49	05/04/18 17:21	1
Aroclor-1232	54	U	54	25	ug/Kg	☼	05/03/18 08:49	05/04/18 17:21	1
Aroclor-1242	54	U	54	21	ug/Kg	☼	05/03/18 08:49	05/04/18 17:21	1
Aroclor-1248	54	U	54	26	ug/Kg	☼	05/03/18 08:49	05/04/18 17:21	1
Aroclor-1254	54	U	54	25	ug/Kg	☼	05/03/18 08:49	05/04/18 17:21	1
Aroclor-1260	54	U	54	24	ug/Kg	☼	05/03/18 08:49	05/04/18 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		14 - 128	05/03/18 08:49	05/04/18 17:21	1
DCB Decachlorobiphenyl	108		10 - 132	05/03/18 08:49	05/04/18 17:21	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-17322-043018-DR-049

Date Collected: 04/30/18 11:42

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-49

Matrix: Solid

Percent Solids: 89.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	56	U	56	25	ug/Kg	☼	05/03/18 08:49	05/04/18 17:39	1
Aroclor-1221	56	U	56	27	ug/Kg	☼	05/03/18 08:49	05/04/18 17:39	1
Aroclor-1232	56	U	56	26	ug/Kg	☼	05/03/18 08:49	05/04/18 17:39	1
Aroclor-1242	56	U	56	21	ug/Kg	☼	05/03/18 08:49	05/04/18 17:39	1
Aroclor-1248	56	U	56	27	ug/Kg	☼	05/03/18 08:49	05/04/18 17:39	1
Aroclor-1254	56	U	56	26	ug/Kg	☼	05/03/18 08:49	05/04/18 17:39	1
Aroclor-1260	56	U	56	25	ug/Kg	☼	05/03/18 08:49	05/04/18 17:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		14 - 128				05/03/18 08:49	05/04/18 17:39	1
DCB Decachlorobiphenyl	80	p	10 - 132				05/03/18 08:49	05/04/18 17:39	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-001

Date Collected: 04/30/18 08:25

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-1

Matrix: Solid

Percent Solids: 92.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92.4		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	7.6		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-002

Date Collected: 04/30/18 08:27

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-2

Matrix: Solid

Percent Solids: 90.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.0		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	10		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-003

Date Collected: 04/30/18 08:33

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-3

Matrix: Solid

Percent Solids: 89.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.7		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	10.3		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-004

Date Collected: 04/30/18 08:35

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-4

Matrix: Solid

Percent Solids: 89.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.4		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	10.6		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-005

Date Collected: 04/30/18 08:37

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-5

Matrix: Solid

Percent Solids: 89.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.2		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	10.8		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-006

Date Collected: 04/30/18 08:43

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-6

Matrix: Solid

Percent Solids: 88.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.5		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	11.5		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-007

Date Collected: 04/30/18 08:45

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-7

Matrix: Solid

Percent Solids: 89.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.0		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	11.0		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-008

Date Collected: 04/30/18 08:55

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-8

Matrix: Solid

Percent Solids: 90.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.0		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	10		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-009

Date Collected: 04/30/18 08:57

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-9

Matrix: Solid

Percent Solids: 83.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.7		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	16.3		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-010

Date Collected: 04/30/18 09:00

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-10

Matrix: Solid

Percent Solids: 84.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.1		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	15.9		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-011

Date Collected: 04/30/18 09:05

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-11

Matrix: Solid

Percent Solids: 85.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.8		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	14.2		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-012

Date Collected: 04/30/18 09:08

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-12

Matrix: Solid

Percent Solids: 88.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.7		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	11.3		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-013

Date Collected: 04/30/18 09:10

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-13

Matrix: Solid

Percent Solids: 88.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.9		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	11.1		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-014

Date Collected: 04/30/18 09:20

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-14

Matrix: Solid

Percent Solids: 90.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.2		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	9.8		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-015

Date Collected: 04/30/18 09:22

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-15

Matrix: Solid

Percent Solids: 92.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92.4		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	7.6		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-016

Date Collected: 04/30/18 09:25

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-16

Matrix: Solid

Percent Solids: 92.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92.0		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	8.0		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-017

Date Collected: 04/30/18 09:27

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-17

Matrix: Solid

Percent Solids: 85.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.4		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	14.6		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-018

Date Collected: 04/30/18 09:30

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-18

Matrix: Solid

Percent Solids: 86.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.8		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	13.2		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-019

Date Collected: 04/30/18 09:33

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-19

Matrix: Solid

Percent Solids: 90.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.9		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	9.1		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-020

Date Collected: 04/30/18 09:35

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-20

Matrix: Solid

Percent Solids: 90.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.2		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	9.8		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-021

Date Collected: 04/30/18 09:45

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-21

Matrix: Solid

Percent Solids: 88.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.6		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	11.4		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-022

Date Collected: 04/30/18 09:50

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-22

Matrix: Solid

Percent Solids: 87.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.8		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	12.2		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-023

Date Collected: 04/30/18 09:53

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-23

Matrix: Solid

Percent Solids: 89.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.1		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	10.9		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-024

Date Collected: 04/30/18 09:55

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-24

Matrix: Solid

Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.3		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	15.7		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-025

Date Collected: 04/30/18 10:00

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-25

Matrix: Solid

Percent Solids: 87.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.7		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	12.3		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-026

Date Collected: 04/30/18 10:10

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-26

Matrix: Solid

Percent Solids: 87.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.2		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	12.8		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-027

Date Collected: 04/30/18 10:12

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-27

Matrix: Solid

Percent Solids: 90.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.0		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	10		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-028

Date Collected: 04/30/18 10:17

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-28

Matrix: Solid

Percent Solids: 84.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.0		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	16.0		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-029

Date Collected: 04/30/18 10:20

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-29

Matrix: Solid

Percent Solids: 90.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.4		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	9.6		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-030

Date Collected: 04/30/18 10:23

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-30

Matrix: Solid

Percent Solids: 89.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.2		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	10.8		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-031

Date Collected: 04/30/18 10:25

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-31

Matrix: Solid

Percent Solids: 87.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.9		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	12.1		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-032

Date Collected: 04/30/18 10:27

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-32

Matrix: Solid

Percent Solids: 88.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.0		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	12.0		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-033

Date Collected: 04/30/18 10:40

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-33

Matrix: Solid

Percent Solids: 89.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.0		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	11.0		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-034

Date Collected: 04/30/18 10:42

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-34

Matrix: Solid

Percent Solids: 89.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.1		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	10.9		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-035

Date Collected: 04/30/18 10:47

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-35

Matrix: Solid

Percent Solids: 84.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.0		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	16.0		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-036

Date Collected: 04/30/18 10:50

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-36

Matrix: Solid

Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.3		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	15.7		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-037

Date Collected: 04/30/18 10:53

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-37

Matrix: Solid

Percent Solids: 89.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.8		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	10.2		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-038

Date Collected: 04/30/18 10:55

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-38

Matrix: Solid

Percent Solids: 93.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.2		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	6.8		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-039

Date Collected: 04/30/18 11:00

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-39

Matrix: Solid

Percent Solids: 88.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.3		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	11.7		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-040

Date Collected: 04/30/18 11:05

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-40

Matrix: Solid

Percent Solids: 88.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.6		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	11.4		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-041

Date Collected: 04/30/18 11:07

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-41

Matrix: Solid

Percent Solids: 85.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.2		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	14.8		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-042

Date Collected: 04/30/18 11:10

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-42

Matrix: Solid

Percent Solids: 89.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.5		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	10.5		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-043

Date Collected: 04/30/18 11:12

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-43

Matrix: Solid

Percent Solids: 87.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.8		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	12.2		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-044

Date Collected: 04/30/18 11:25

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-44

Matrix: Solid

Percent Solids: 88.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.0		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	12.0		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-045

Date Collected: 04/30/18 11:30

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-45

Matrix: Solid

Percent Solids: 85.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.6		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	14.4		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-046

Date Collected: 04/30/18 11:32

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-46

Matrix: Solid

Percent Solids: 93.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.4		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	6.6		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-047

Date Collected: 04/30/18 11:35

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-47

Matrix: Solid

Percent Solids: 88.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.5		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	11.5		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-048

Date Collected: 04/30/18 11:40

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-48

Matrix: Solid

Percent Solids: 89.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.0		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	11.0		0.1	0.1	%			05/02/18 11:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry

Client Sample ID: SO-17322-043018-DR-049

Date Collected: 04/30/18 11:42

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-49

Matrix: Solid

Percent Solids: 89.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.5		0.1	0.1	%			05/02/18 11:05	1
Percent Moisture	10.5		0.1	0.1	%			05/02/18 11:05	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

GC Semi VOA

Prep Batch: 325054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-94866-1	SO-17322-043018-DR-001	Total/NA	Solid	3540C	
240-94866-2	SO-17322-043018-DR-002	Total/NA	Solid	3540C	
240-94866-3	SO-17322-043018-DR-003	Total/NA	Solid	3540C	
240-94866-4	SO-17322-043018-DR-004	Total/NA	Solid	3540C	
240-94866-5	SO-17322-043018-DR-005	Total/NA	Solid	3540C	
240-94866-6	SO-17322-043018-DR-006	Total/NA	Solid	3540C	
240-94866-7	SO-17322-043018-DR-007	Total/NA	Solid	3540C	
240-94866-8	SO-17322-043018-DR-008	Total/NA	Solid	3540C	
240-94866-9	SO-17322-043018-DR-009	Total/NA	Solid	3540C	
240-94866-10	SO-17322-043018-DR-010	Total/NA	Solid	3540C	
240-94866-11	SO-17322-043018-DR-011	Total/NA	Solid	3540C	
240-94866-12	SO-17322-043018-DR-012	Total/NA	Solid	3540C	
240-94866-13	SO-17322-043018-DR-013	Total/NA	Solid	3540C	
240-94866-14	SO-17322-043018-DR-014	Total/NA	Solid	3540C	
240-94866-16	SO-17322-043018-DR-016	Total/NA	Solid	3540C	
240-94866-17	SO-17322-043018-DR-017	Total/NA	Solid	3540C	
240-94866-18	SO-17322-043018-DR-018	Total/NA	Solid	3540C	
240-94866-19	SO-17322-043018-DR-019	Total/NA	Solid	3540C	
240-94866-20	SO-17322-043018-DR-020	Total/NA	Solid	3540C	
MB 240-325054/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-325054/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-94866-20 MS	SO-17322-043018-DR-020	Total/NA	Solid	3540C	
240-94866-20 MSD	SO-17322-043018-DR-020	Total/NA	Solid	3540C	

Prep Batch: 325163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-94866-21	SO-17322-043018-DR-021	Total/NA	Solid	3540C	
240-94866-22	SO-17322-043018-DR-022	Total/NA	Solid	3540C	
240-94866-23	SO-17322-043018-DR-023	Total/NA	Solid	3540C	
240-94866-24	SO-17322-043018-DR-024	Total/NA	Solid	3540C	
240-94866-25	SO-17322-043018-DR-025	Total/NA	Solid	3540C	
240-94866-26	SO-17322-043018-DR-026	Total/NA	Solid	3540C	
240-94866-27	SO-17322-043018-DR-027	Total/NA	Solid	3540C	
240-94866-28	SO-17322-043018-DR-028	Total/NA	Solid	3540C	
240-94866-29	SO-17322-043018-DR-029	Total/NA	Solid	3540C	
240-94866-30	SO-17322-043018-DR-030	Total/NA	Solid	3540C	
240-94866-31	SO-17322-043018-DR-031	Total/NA	Solid	3540C	
240-94866-32	SO-17322-043018-DR-032	Total/NA	Solid	3540C	
240-94866-33	SO-17322-043018-DR-033	Total/NA	Solid	3540C	
240-94866-34	SO-17322-043018-DR-034	Total/NA	Solid	3540C	
240-94866-35	SO-17322-043018-DR-035	Total/NA	Solid	3540C	
240-94866-36	SO-17322-043018-DR-036	Total/NA	Solid	3540C	
240-94866-37	SO-17322-043018-DR-037	Total/NA	Solid	3540C	
240-94866-38	SO-17322-043018-DR-038	Total/NA	Solid	3540C	
240-94866-39	SO-17322-043018-DR-039	Total/NA	Solid	3540C	
240-94866-40	SO-17322-043018-DR-040	Total/NA	Solid	3540C	
MB 240-325163/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-325163/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-94866-22 MS	SO-17322-043018-DR-022	Total/NA	Solid	3540C	
240-94866-22 MSD	SO-17322-043018-DR-022	Total/NA	Solid	3540C	

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

GC Semi VOA (Continued)

Prep Batch: 325187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-94866-15	SO-17322-043018-DR-015	Total/NA	Solid	3540C	
240-94866-41	SO-17322-043018-DR-041	Total/NA	Solid	3540C	
240-94866-42	SO-17322-043018-DR-042	Total/NA	Solid	3540C	
240-94866-43	SO-17322-043018-DR-043	Total/NA	Solid	3540C	
240-94866-44	SO-17322-043018-DR-044	Total/NA	Solid	3540C	
240-94866-45	SO-17322-043018-DR-045	Total/NA	Solid	3540C	
240-94866-46	SO-17322-043018-DR-046	Total/NA	Solid	3540C	
240-94866-47	SO-17322-043018-DR-047	Total/NA	Solid	3540C	
240-94866-48	SO-17322-043018-DR-048	Total/NA	Solid	3540C	
240-94866-49	SO-17322-043018-DR-049	Total/NA	Solid	3540C	
MB 240-325187/20-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-325187/21-A	Lab Control Sample	Total/NA	Solid	3540C	
240-94866-44 MS	SO-17322-043018-DR-044	Total/NA	Solid	3540C	
240-94866-44 MSD	SO-17322-043018-DR-044	Total/NA	Solid	3540C	

Analysis Batch: 325294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-94866-1	SO-17322-043018-DR-001	Total/NA	Solid	8082A	325054
240-94866-2	SO-17322-043018-DR-002	Total/NA	Solid	8082A	325054
240-94866-3	SO-17322-043018-DR-003	Total/NA	Solid	8082A	325054
240-94866-4	SO-17322-043018-DR-004	Total/NA	Solid	8082A	325054
240-94866-5	SO-17322-043018-DR-005	Total/NA	Solid	8082A	325054
240-94866-6	SO-17322-043018-DR-006	Total/NA	Solid	8082A	325054
240-94866-7	SO-17322-043018-DR-007	Total/NA	Solid	8082A	325054
240-94866-8	SO-17322-043018-DR-008	Total/NA	Solid	8082A	325054
240-94866-9	SO-17322-043018-DR-009	Total/NA	Solid	8082A	325054
240-94866-10	SO-17322-043018-DR-010	Total/NA	Solid	8082A	325054
240-94866-11	SO-17322-043018-DR-011	Total/NA	Solid	8082A	325054
240-94866-12	SO-17322-043018-DR-012	Total/NA	Solid	8082A	325054
240-94866-14	SO-17322-043018-DR-014	Total/NA	Solid	8082A	325054
240-94866-16	SO-17322-043018-DR-016	Total/NA	Solid	8082A	325054
240-94866-17	SO-17322-043018-DR-017	Total/NA	Solid	8082A	325054
240-94866-18	SO-17322-043018-DR-018	Total/NA	Solid	8082A	325054
240-94866-19	SO-17322-043018-DR-019	Total/NA	Solid	8082A	325054
240-94866-20	SO-17322-043018-DR-020	Total/NA	Solid	8082A	325054
MB 240-325054/23-A	Method Blank	Total/NA	Solid	8082A	325054
LCS 240-325054/24-A	Lab Control Sample	Total/NA	Solid	8082A	325054
240-94866-20 MS	SO-17322-043018-DR-020	Total/NA	Solid	8082A	325054
240-94866-20 MSD	SO-17322-043018-DR-020	Total/NA	Solid	8082A	325054

Analysis Batch: 325320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-94866-15	SO-17322-043018-DR-015	Total/NA	Solid	8082A	325187
240-94866-41	SO-17322-043018-DR-041	Total/NA	Solid	8082A	325187
240-94866-42	SO-17322-043018-DR-042	Total/NA	Solid	8082A	325187
240-94866-43	SO-17322-043018-DR-043	Total/NA	Solid	8082A	325187
240-94866-44	SO-17322-043018-DR-044	Total/NA	Solid	8082A	325187
240-94866-45	SO-17322-043018-DR-045	Total/NA	Solid	8082A	325187
240-94866-46	SO-17322-043018-DR-046	Total/NA	Solid	8082A	325187
240-94866-47	SO-17322-043018-DR-047	Total/NA	Solid	8082A	325187
240-94866-48	SO-17322-043018-DR-048	Total/NA	Solid	8082A	325187

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

GC Semi VOA (Continued)

Analysis Batch: 325320 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-94866-49	SO-17322-043018-DR-049	Total/NA	Solid	8082A	325187
MB 240-325187/20-A	Method Blank	Total/NA	Solid	8082A	325187
LCS 240-325187/21-A	Lab Control Sample	Total/NA	Solid	8082A	325187
240-94866-44 MS	SO-17322-043018-DR-044	Total/NA	Solid	8082A	325187
240-94866-44 MSD	SO-17322-043018-DR-044	Total/NA	Solid	8082A	325187

Analysis Batch: 325444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-94866-21	SO-17322-043018-DR-021	Total/NA	Solid	8082A	325163
240-94866-22	SO-17322-043018-DR-022	Total/NA	Solid	8082A	325163
240-94866-23	SO-17322-043018-DR-023	Total/NA	Solid	8082A	325163
240-94866-24	SO-17322-043018-DR-024	Total/NA	Solid	8082A	325163
240-94866-25	SO-17322-043018-DR-025	Total/NA	Solid	8082A	325163
240-94866-26	SO-17322-043018-DR-026	Total/NA	Solid	8082A	325163
240-94866-27	SO-17322-043018-DR-027	Total/NA	Solid	8082A	325163
240-94866-28	SO-17322-043018-DR-028	Total/NA	Solid	8082A	325163
240-94866-29	SO-17322-043018-DR-029	Total/NA	Solid	8082A	325163
240-94866-30	SO-17322-043018-DR-030	Total/NA	Solid	8082A	325163
240-94866-31	SO-17322-043018-DR-031	Total/NA	Solid	8082A	325163
240-94866-32	SO-17322-043018-DR-032	Total/NA	Solid	8082A	325163
240-94866-33	SO-17322-043018-DR-033	Total/NA	Solid	8082A	325163
240-94866-34	SO-17322-043018-DR-034	Total/NA	Solid	8082A	325163
240-94866-35	SO-17322-043018-DR-035	Total/NA	Solid	8082A	325163
240-94866-36	SO-17322-043018-DR-036	Total/NA	Solid	8082A	325163
240-94866-37	SO-17322-043018-DR-037	Total/NA	Solid	8082A	325163
240-94866-38	SO-17322-043018-DR-038	Total/NA	Solid	8082A	325163
240-94866-39	SO-17322-043018-DR-039	Total/NA	Solid	8082A	325163
240-94866-40	SO-17322-043018-DR-040	Total/NA	Solid	8082A	325163
MB 240-325163/23-A	Method Blank	Total/NA	Solid	8082A	325163
LCS 240-325163/24-A	Lab Control Sample	Total/NA	Solid	8082A	325163
240-94866-22 MS	SO-17322-043018-DR-022	Total/NA	Solid	8082A	325163
240-94866-22 MSD	SO-17322-043018-DR-022	Total/NA	Solid	8082A	325163

Analysis Batch: 325888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-94866-13	SO-17322-043018-DR-013	Total/NA	Solid	8082A	325054

General Chemistry

Analysis Batch: 325028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-94866-1	SO-17322-043018-DR-001	Total/NA	Solid	Moisture	
240-94866-2	SO-17322-043018-DR-002	Total/NA	Solid	Moisture	
240-94866-3	SO-17322-043018-DR-003	Total/NA	Solid	Moisture	
240-94866-4	SO-17322-043018-DR-004	Total/NA	Solid	Moisture	
240-94866-5	SO-17322-043018-DR-005	Total/NA	Solid	Moisture	
240-94866-6	SO-17322-043018-DR-006	Total/NA	Solid	Moisture	
240-94866-7	SO-17322-043018-DR-007	Total/NA	Solid	Moisture	
240-94866-8	SO-17322-043018-DR-008	Total/NA	Solid	Moisture	
240-94866-9	SO-17322-043018-DR-009	Total/NA	Solid	Moisture	

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

General Chemistry (Continued)

Analysis Batch: 325028 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-94866-10	SO-17322-043018-DR-010	Total/NA	Solid	Moisture	
240-94866-11	SO-17322-043018-DR-011	Total/NA	Solid	Moisture	
240-94866-12	SO-17322-043018-DR-012	Total/NA	Solid	Moisture	
240-94866-13	SO-17322-043018-DR-013	Total/NA	Solid	Moisture	
240-94866-14	SO-17322-043018-DR-014	Total/NA	Solid	Moisture	
240-94866-15	SO-17322-043018-DR-015	Total/NA	Solid	Moisture	
240-94866-16	SO-17322-043018-DR-016	Total/NA	Solid	Moisture	
240-94866-17	SO-17322-043018-DR-017	Total/NA	Solid	Moisture	
240-94866-18	SO-17322-043018-DR-018	Total/NA	Solid	Moisture	
240-94866-19	SO-17322-043018-DR-019	Total/NA	Solid	Moisture	
240-94866-20	SO-17322-043018-DR-020	Total/NA	Solid	Moisture	
240-94866-21	SO-17322-043018-DR-021	Total/NA	Solid	Moisture	
240-94866-22	SO-17322-043018-DR-022	Total/NA	Solid	Moisture	
240-94866-23	SO-17322-043018-DR-023	Total/NA	Solid	Moisture	
240-94866-24	SO-17322-043018-DR-024	Total/NA	Solid	Moisture	
240-94866-25	SO-17322-043018-DR-025	Total/NA	Solid	Moisture	
240-94866-26	SO-17322-043018-DR-026	Total/NA	Solid	Moisture	
240-94866-27	SO-17322-043018-DR-027	Total/NA	Solid	Moisture	
240-94866-28	SO-17322-043018-DR-028	Total/NA	Solid	Moisture	
240-94866-29	SO-17322-043018-DR-029	Total/NA	Solid	Moisture	
240-94866-30	SO-17322-043018-DR-030	Total/NA	Solid	Moisture	
240-94866-31	SO-17322-043018-DR-031	Total/NA	Solid	Moisture	
240-94866-32	SO-17322-043018-DR-032	Total/NA	Solid	Moisture	
240-94866-33	SO-17322-043018-DR-033	Total/NA	Solid	Moisture	
240-94866-34	SO-17322-043018-DR-034	Total/NA	Solid	Moisture	
240-94866-35	SO-17322-043018-DR-035	Total/NA	Solid	Moisture	
240-94866-36	SO-17322-043018-DR-036	Total/NA	Solid	Moisture	
240-94866-37	SO-17322-043018-DR-037	Total/NA	Solid	Moisture	
240-94866-38	SO-17322-043018-DR-038	Total/NA	Solid	Moisture	
240-94866-39	SO-17322-043018-DR-039	Total/NA	Solid	Moisture	
240-94866-40	SO-17322-043018-DR-040	Total/NA	Solid	Moisture	
240-94866-41	SO-17322-043018-DR-041	Total/NA	Solid	Moisture	
240-94866-42	SO-17322-043018-DR-042	Total/NA	Solid	Moisture	
240-94866-43	SO-17322-043018-DR-043	Total/NA	Solid	Moisture	
240-94866-44	SO-17322-043018-DR-044	Total/NA	Solid	Moisture	
240-94866-45	SO-17322-043018-DR-045	Total/NA	Solid	Moisture	
240-94866-46	SO-17322-043018-DR-046	Total/NA	Solid	Moisture	
240-94866-47	SO-17322-043018-DR-047	Total/NA	Solid	Moisture	
240-94866-48	SO-17322-043018-DR-048	Total/NA	Solid	Moisture	
240-94866-49	SO-17322-043018-DR-049	Total/NA	Solid	Moisture	
240-94866-8 DU	SO-17322-043018-DR-008	Total/NA	Solid	Moisture	
240-94866-18 DU	SO-17322-043018-DR-018	Total/NA	Solid	Moisture	
240-94866-28 DU	SO-17322-043018-DR-028	Total/NA	Solid	Moisture	
240-94866-38 DU	SO-17322-043018-DR-038	Total/NA	Solid	Moisture	
240-94866-48 DU	SO-17322-043018-DR-048	Total/NA	Solid	Moisture	

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-325054/23-A

Matrix: Solid

Analysis Batch: 325294

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 325054

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	50	U	50	22	ug/Kg		05/02/18 12:18	05/04/18 02:03	1
Aroclor-1221	50	U	50	24	ug/Kg		05/02/18 12:18	05/04/18 02:03	1
Aroclor-1232	50	U	50	23	ug/Kg		05/02/18 12:18	05/04/18 02:03	1
Aroclor-1242	50	U	50	19	ug/Kg		05/02/18 12:18	05/04/18 02:03	1
Aroclor-1248	50	U	50	24	ug/Kg		05/02/18 12:18	05/04/18 02:03	1
Aroclor-1254	50	U	50	23	ug/Kg		05/02/18 12:18	05/04/18 02:03	1
Aroclor-1260	50	U	50	22	ug/Kg		05/02/18 12:18	05/04/18 02:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	99		14 - 128	05/02/18 12:18	05/04/18 02:03	1
DCB Decachlorobiphenyl	117	p	10 - 132	05/02/18 12:18	05/04/18 02:03	1

Lab Sample ID: LCS 240-325054/24-A

Matrix: Solid

Analysis Batch: 325294

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 325054

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	1000	555		ug/Kg		55	47 - 120
Aroclor-1260	1000	659		ug/Kg		66	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	60		14 - 128
DCB Decachlorobiphenyl	101		10 - 132

Lab Sample ID: 240-94866-20 MS

Matrix: Solid

Analysis Batch: 325294

Client Sample ID: SO-17322-043018-DR-020

Prep Type: Total/NA

Prep Batch: 325054

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	55	U	1150	758		ug/Kg	☼	66	31 - 120
Aroclor-1260	55	U F1	1150	880		ug/Kg	☼	77	21 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	71		14 - 128
DCB Decachlorobiphenyl	83	p	10 - 132

Lab Sample ID: 240-94866-20 MSD

Matrix: Solid

Analysis Batch: 325294

Client Sample ID: SO-17322-043018-DR-020

Prep Type: Total/NA

Prep Batch: 325054

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor-1016	55	U	1060	939		ug/Kg	☼	89	31 - 120	21	30
Aroclor-1260	55	U F1	1060	1130		ug/Kg	☼	106	21 - 122	25	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	104		14 - 128
DCB Decachlorobiphenyl	151	X	10 - 132

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Lab Sample ID: MB 240-325163/23-A

Matrix: Solid

Analysis Batch: 325444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 325163

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	50	U	50	22	ug/Kg		05/03/18 08:13	05/05/18 02:04	1
Aroclor-1221	50	U	50	24	ug/Kg		05/03/18 08:13	05/05/18 02:04	1
Aroclor-1232	50	U	50	23	ug/Kg		05/03/18 08:13	05/05/18 02:04	1
Aroclor-1242	50	U	50	19	ug/Kg		05/03/18 08:13	05/05/18 02:04	1
Aroclor-1248	50	U	50	24	ug/Kg		05/03/18 08:13	05/05/18 02:04	1
Aroclor-1254	50	U	50	23	ug/Kg		05/03/18 08:13	05/05/18 02:04	1
Aroclor-1260	50	U	50	22	ug/Kg		05/03/18 08:13	05/05/18 02:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	112		14 - 128	05/03/18 08:13	05/05/18 02:04	1
DCB Decachlorobiphenyl	119		10 - 132	05/03/18 08:13	05/05/18 02:04	1

Lab Sample ID: LCS 240-325163/24-A

Matrix: Solid

Analysis Batch: 325444

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 325163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	1000	949		ug/Kg		95	47 - 120
Aroclor-1260	1000	1120		ug/Kg		112	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	109		14 - 128
DCB Decachlorobiphenyl	112		10 - 132

Lab Sample ID: 240-94866-22 MS

Matrix: Solid

Analysis Batch: 325444

Client Sample ID: SO-17322-043018-DR-022

Prep Type: Total/NA

Prep Batch: 325163

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	57	U	1140	829		ug/Kg	☼	72	31 - 120
Aroclor-1260	57	U	1140	906		ug/Kg	☼	79	21 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	85		14 - 128
DCB Decachlorobiphenyl	85		10 - 132

Lab Sample ID: 240-94866-22 MSD

Matrix: Solid

Analysis Batch: 325444

Client Sample ID: SO-17322-043018-DR-022

Prep Type: Total/NA

Prep Batch: 325163

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	57	U	1190	907		ug/Kg	☼	76	31 - 120	9	30
Aroclor-1260	57	U	1190	1020		ug/Kg	☼	85	21 - 122	11	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	90		14 - 128
DCB Decachlorobiphenyl	92		10 - 132

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-325187/20-A

Matrix: Solid

Analysis Batch: 325320

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 325187

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	50	U	50	22	ug/Kg		05/03/18 08:49	05/04/18 15:31	1
Aroclor-1221	50	U	50	24	ug/Kg		05/03/18 08:49	05/04/18 15:31	1
Aroclor-1232	50	U	50	23	ug/Kg		05/03/18 08:49	05/04/18 15:31	1
Aroclor-1242	50	U	50	19	ug/Kg		05/03/18 08:49	05/04/18 15:31	1
Aroclor-1248	50	U	50	24	ug/Kg		05/03/18 08:49	05/04/18 15:31	1
Aroclor-1254	50	U	50	23	ug/Kg		05/03/18 08:49	05/04/18 15:31	1
Aroclor-1260	50	U	50	22	ug/Kg		05/03/18 08:49	05/04/18 15:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		14 - 128	05/03/18 08:49	05/04/18 15:31	1
DCB Decachlorobiphenyl	89		10 - 132	05/03/18 08:49	05/04/18 15:31	1

Lab Sample ID: LCS 240-325187/21-A

Matrix: Solid

Analysis Batch: 325320

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 325187

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	1000	795		ug/Kg		80	47 - 120
Aroclor-1260	1000	976		ug/Kg		98	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	96		14 - 128
DCB Decachlorobiphenyl	102		10 - 132

Lab Sample ID: 240-94866-44 MS

Matrix: Solid

Analysis Batch: 325320

Client Sample ID: SO-17322-043018-DR-044

Prep Type: Total/NA

Prep Batch: 325187

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	59	U	1190	869		ug/Kg	☼	73	31 - 120
Aroclor-1260	59	U	1190	1100		ug/Kg	☼	92	21 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	81		14 - 128
DCB Decachlorobiphenyl	116		10 - 132

Lab Sample ID: 240-94866-44 MSD

Matrix: Solid

Analysis Batch: 325320

Client Sample ID: SO-17322-043018-DR-044

Prep Type: Total/NA

Prep Batch: 325187

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor-1016	59	U	1130	749		ug/Kg	☼	66	31 - 120	15	30
Aroclor-1260	59	U	1130	944		ug/Kg	☼	84	21 - 122	15	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	71		14 - 128
DCB Decachlorobiphenyl	94		10 - 132

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: Moisture - Percent Moisture

Lab Sample ID: 240-94866-8 DU

Matrix: Solid

Analysis Batch: 325028

Client Sample ID: SO-17322-043018-DR-008

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	90.0		90.8		%		0.9	20
Percent Moisture	10		9.2		%		9	20

Lab Sample ID: 240-94866-18 DU

Matrix: Solid

Analysis Batch: 325028

Client Sample ID: SO-17322-043018-DR-018

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	86.8		87.4		%		0.7	20
Percent Moisture	13.2		12.6		%		5	20

Lab Sample ID: 240-94866-28 DU

Matrix: Solid

Analysis Batch: 325028

Client Sample ID: SO-17322-043018-DR-028

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	84.0		85.1		%		1	20
Percent Moisture	16.0		14.9		%		7	20

Lab Sample ID: 240-94866-38 DU

Matrix: Solid

Analysis Batch: 325028

Client Sample ID: SO-17322-043018-DR-038

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	93.2		89.7		%		4	20
Percent Moisture	6.8		10.3	F3	%		40	20

Lab Sample ID: 240-94866-48 DU

Matrix: Solid

Analysis Batch: 325028

Client Sample ID: SO-17322-043018-DR-048

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	89.0		89.4		%		0.5	20
Percent Moisture	11.0		10.6		%		4	20

TestAmerica Canton

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (14-128)	TCX2 (14-128)	DCBP1 (10-132)	DCBP2 (10-132)
240-94866-1	SO-17322-043018-DR-001		92		149 X
240-94866-2	SO-17322-043018-DR-002		95		116
240-94866-3	SO-17322-043018-DR-003		101		129
240-94866-4	SO-17322-043018-DR-004		73		88
240-94866-5	SO-17322-043018-DR-005		90		121
240-94866-6	SO-17322-043018-DR-006		104		110 p
240-94866-7	SO-17322-043018-DR-007		106		152 p X
240-94866-8	SO-17322-043018-DR-008		86		268 p X
240-94866-9	SO-17322-043018-DR-009		85		138 X
240-94866-10	SO-17322-043018-DR-010		85		102
240-94866-11	SO-17322-043018-DR-011		111		136 X
240-94866-12	SO-17322-043018-DR-012		86		124 p
240-94866-13	SO-17322-043018-DR-013		474 X		592 X
240-94866-14	SO-17322-043018-DR-014		86		117
240-94866-15	SO-17322-043018-DR-015		95		126 p
240-94866-16	SO-17322-043018-DR-016		94		287 X
240-94866-17	SO-17322-043018-DR-017		97		114
240-94866-18	SO-17322-043018-DR-018		90		102
240-94866-19	SO-17322-043018-DR-019	100	101	137 X	132
240-94866-20	SO-17322-043018-DR-020		98		116
240-94866-20 MS	SO-17322-043018-DR-020		71		83 p
240-94866-20 MSD	SO-17322-043018-DR-020		104		151 X
240-94866-21	SO-17322-043018-DR-021		83		84
240-94866-22	SO-17322-043018-DR-022		94		92
240-94866-22 MS	SO-17322-043018-DR-022		85		85
240-94866-22 MSD	SO-17322-043018-DR-022		90		92
240-94866-23	SO-17322-043018-DR-023		100		69
240-94866-24	SO-17322-043018-DR-024		84		98
240-94866-25	SO-17322-043018-DR-025		95		55
240-94866-26	SO-17322-043018-DR-026		94		96
240-94866-27	SO-17322-043018-DR-027		96		101
240-94866-28	SO-17322-043018-DR-028		91		97
240-94866-29	SO-17322-043018-DR-029		89		97
240-94866-30	SO-17322-043018-DR-030		84		90
240-94866-31	SO-17322-043018-DR-031		84		88
240-94866-32	SO-17322-043018-DR-032		79		84
240-94866-33	SO-17322-043018-DR-033		93		95
240-94866-34	SO-17322-043018-DR-034		100		102
240-94866-35	SO-17322-043018-DR-035		82		90
240-94866-36	SO-17322-043018-DR-036		99		116
240-94866-37	SO-17322-043018-DR-037		95		108
240-94866-38	SO-17322-043018-DR-038		74		77
240-94866-39	SO-17322-043018-DR-039		78		79
240-94866-40	SO-17322-043018-DR-040		91		85
240-94866-41	SO-17322-043018-DR-041		93		112
240-94866-42	SO-17322-043018-DR-042		92		94
240-94866-43	SO-17322-043018-DR-043		92		99 p
240-94866-44	SO-17322-043018-DR-044		72		101
240-94866-44 MS	SO-17322-043018-DR-044		81		116

TestAmerica Canton

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	TCX1 (14-128)	TCX2 (14-128)	DCBP1 (10-132)	DCBP2 (10-132)
240-94866-44 MSD	SO-17322-043018-DR-044		71		94
240-94866-45	SO-17322-043018-DR-045		82		163 X
240-94866-46	SO-17322-043018-DR-046		96		396 X
240-94866-47	SO-17322-043018-DR-047		72		81
240-94866-48	SO-17322-043018-DR-048		93		108
240-94866-49	SO-17322-043018-DR-049		85		80 p
LCS 240-325054/24-A	Lab Control Sample		60		101
LCS 240-325163/24-A	Lab Control Sample		109		112
LCS 240-325187/21-A	Lab Control Sample		96		102
MB 240-325054/23-A	Method Blank		99		117 p
MB 240-325163/23-A	Method Blank		112		119
MB 240-325187/20-A	Method Blank		82		89

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-001

Date Collected: 04/30/18 08:25

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-001

Date Collected: 04/30/18 08:25

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-1

Matrix: Solid

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		5	325294	05/03/18 20:51	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-002

Date Collected: 04/30/18 08:27

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-002

Date Collected: 04/30/18 08:27

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-2

Matrix: Solid

Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325294	05/03/18 21:09	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-003

Date Collected: 04/30/18 08:33

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-003

Date Collected: 04/30/18 08:33

Date Received: 05/01/18 10:00

Lab Sample ID: 240-94866-3

Matrix: Solid

Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325294	05/03/18 21:28	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-004

Lab Sample ID: 240-94866-4

Date Collected: 04/30/18 08:35

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-004

Lab Sample ID: 240-94866-4

Date Collected: 04/30/18 08:35

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325294	05/03/18 21:46	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-005

Lab Sample ID: 240-94866-5

Date Collected: 04/30/18 08:37

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-005

Lab Sample ID: 240-94866-5

Date Collected: 04/30/18 08:37

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325294	05/03/18 22:04	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-006

Lab Sample ID: 240-94866-6

Date Collected: 04/30/18 08:43

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-006

Lab Sample ID: 240-94866-6

Date Collected: 04/30/18 08:43

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325294	05/03/18 22:23	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-007

Lab Sample ID: 240-94866-7

Date Collected: 04/30/18 08:45

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-007

Lab Sample ID: 240-94866-7

Date Collected: 04/30/18 08:45

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325294	05/03/18 22:41	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-008

Lab Sample ID: 240-94866-8

Date Collected: 04/30/18 08:55

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-008

Lab Sample ID: 240-94866-8

Date Collected: 04/30/18 08:55

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		5	325294	05/03/18 22:59	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-009

Lab Sample ID: 240-94866-9

Date Collected: 04/30/18 08:57

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-009

Lab Sample ID: 240-94866-9

Date Collected: 04/30/18 08:57

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325294	05/03/18 23:18	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-010

Lab Sample ID: 240-94866-10

Date Collected: 04/30/18 09:00

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-010

Lab Sample ID: 240-94866-10

Date Collected: 04/30/18 09:00

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325294	05/03/18 23:36	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-011

Lab Sample ID: 240-94866-11

Date Collected: 04/30/18 09:05

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-011

Lab Sample ID: 240-94866-11

Date Collected: 04/30/18 09:05

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325294	05/03/18 23:55	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-012

Lab Sample ID: 240-94866-12

Date Collected: 04/30/18 09:08

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-012

Lab Sample ID: 240-94866-12

Date Collected: 04/30/18 09:08

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325294	05/04/18 00:13	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-013

Lab Sample ID: 240-94866-13

Date Collected: 04/30/18 09:10

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-013

Lab Sample ID: 240-94866-13

Date Collected: 04/30/18 09:10

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		8	325888	05/08/18 19:44	CSC	TAL CAN

Client Sample ID: SO-17322-043018-DR-014

Lab Sample ID: 240-94866-14

Date Collected: 04/30/18 09:20

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-014

Lab Sample ID: 240-94866-14

Date Collected: 04/30/18 09:20

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325294	05/04/18 00:50	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-015

Lab Sample ID: 240-94866-15

Date Collected: 04/30/18 09:22

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-015

Lab Sample ID: 240-94866-15

Date Collected: 04/30/18 09:22

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325187	05/03/18 10:24	DVT	TAL CAN
Total/NA	Analysis	8082A		10	325320	05/04/18 17:58	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-016

Lab Sample ID: 240-94866-16

Date Collected: 04/30/18 09:25

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-016

Lab Sample ID: 240-94866-16

Date Collected: 04/30/18 09:25

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		5	325294	05/04/18 01:08	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-017

Lab Sample ID: 240-94866-17

Date Collected: 04/30/18 09:27

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-017

Lab Sample ID: 240-94866-17

Date Collected: 04/30/18 09:27

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325294	05/04/18 01:26	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-018

Lab Sample ID: 240-94866-18

Date Collected: 04/30/18 09:30

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-018

Lab Sample ID: 240-94866-18

Date Collected: 04/30/18 09:30

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325294	05/04/18 01:45	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-019

Lab Sample ID: 240-94866-19

Date Collected: 04/30/18 09:33

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-019

Lab Sample ID: 240-94866-19

Date Collected: 04/30/18 09:33

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325294	05/04/18 02:58	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-020

Lab Sample ID: 240-94866-20

Date Collected: 04/30/18 09:35

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-020

Lab Sample ID: 240-94866-20

Date Collected: 04/30/18 09:35

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325054	05/02/18 12:18	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325294	05/04/18 03:17	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-021

Lab Sample ID: 240-94866-21

Date Collected: 04/30/18 09:45

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-021

Lab Sample ID: 240-94866-21

Date Collected: 04/30/18 09:45

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/04/18 20:33	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-022

Lab Sample ID: 240-94866-22

Date Collected: 04/30/18 09:50

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-022

Lab Sample ID: 240-94866-22

Date Collected: 04/30/18 09:50

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/04/18 20:52	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-023

Lab Sample ID: 240-94866-23

Date Collected: 04/30/18 09:53

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-023

Lab Sample ID: 240-94866-23

Date Collected: 04/30/18 09:53

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/04/18 21:51	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-024

Lab Sample ID: 240-94866-24

Date Collected: 04/30/18 09:55

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-024

Lab Sample ID: 240-94866-24

Date Collected: 04/30/18 09:55

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/04/18 22:10	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-025

Lab Sample ID: 240-94866-25

Date Collected: 04/30/18 10:00

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-025

Lab Sample ID: 240-94866-25

Date Collected: 04/30/18 10:00

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/04/18 22:30	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-026

Lab Sample ID: 240-94866-26

Date Collected: 04/30/18 10:10

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-026

Lab Sample ID: 240-94866-26

Date Collected: 04/30/18 10:10

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/04/18 22:49	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-027

Lab Sample ID: 240-94866-27

Date Collected: 04/30/18 10:12

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-027

Lab Sample ID: 240-94866-27

Date Collected: 04/30/18 10:12

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/04/18 23:09	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-028

Lab Sample ID: 240-94866-28

Date Collected: 04/30/18 10:17

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-028

Lab Sample ID: 240-94866-28

Date Collected: 04/30/18 10:17

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/04/18 23:28	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-029

Lab Sample ID: 240-94866-29

Date Collected: 04/30/18 10:20

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-029

Lab Sample ID: 240-94866-29

Date Collected: 04/30/18 10:20

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/04/18 23:48	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-030

Lab Sample ID: 240-94866-30

Date Collected: 04/30/18 10:23

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-030

Lab Sample ID: 240-94866-30

Date Collected: 04/30/18 10:23

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/05/18 00:07	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-031

Lab Sample ID: 240-94866-31

Date Collected: 04/30/18 10:25

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-031

Lab Sample ID: 240-94866-31

Date Collected: 04/30/18 10:25

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/05/18 00:26	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-032

Lab Sample ID: 240-94866-32

Date Collected: 04/30/18 10:27

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-032

Lab Sample ID: 240-94866-32

Date Collected: 04/30/18 10:27

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/05/18 00:46	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-033

Lab Sample ID: 240-94866-33

Date Collected: 04/30/18 10:40

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-033

Lab Sample ID: 240-94866-33

Date Collected: 04/30/18 10:40

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/05/18 01:05	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-034

Lab Sample ID: 240-94866-34

Date Collected: 04/30/18 10:42

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-034

Lab Sample ID: 240-94866-34

Date Collected: 04/30/18 10:42

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/05/18 01:25	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-035

Lab Sample ID: 240-94866-35

Date Collected: 04/30/18 10:47

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-035

Lab Sample ID: 240-94866-35

Date Collected: 04/30/18 10:47

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/05/18 01:44	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-036

Lab Sample ID: 240-94866-36

Date Collected: 04/30/18 10:50

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-036

Lab Sample ID: 240-94866-36

Date Collected: 04/30/18 10:50

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/05/18 03:02	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-037

Lab Sample ID: 240-94866-37

Date Collected: 04/30/18 10:53

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-037

Lab Sample ID: 240-94866-37

Date Collected: 04/30/18 10:53

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/05/18 03:22	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-038

Lab Sample ID: 240-94866-38

Date Collected: 04/30/18 10:55

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-038

Lab Sample ID: 240-94866-38

Date Collected: 04/30/18 10:55

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/05/18 03:41	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-039

Lab Sample ID: 240-94866-39

Date Collected: 04/30/18 11:00

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-039

Lab Sample ID: 240-94866-39

Date Collected: 04/30/18 11:00

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/05/18 04:01	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-040

Lab Sample ID: 240-94866-40

Date Collected: 04/30/18 11:05

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-040

Lab Sample ID: 240-94866-40

Date Collected: 04/30/18 11:05

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325163	05/03/18 08:13	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325444	05/05/18 04:20	KMG	TAL CAN

Client Sample ID: SO-17322-043018-DR-041

Lab Sample ID: 240-94866-41

Date Collected: 04/30/18 11:07

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-041

Lab Sample ID: 240-94866-41

Date Collected: 04/30/18 11:07

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325187	05/03/18 08:49	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325320	05/04/18 13:41	LSH	TAL CAN

Client Sample ID: SO-17322-043018-DR-042

Lab Sample ID: 240-94866-42

Date Collected: 04/30/18 11:10

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-042

Lab Sample ID: 240-94866-42

Date Collected: 04/30/18 11:10

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325187	05/03/18 08:49	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325320	05/04/18 13:59	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-043

Lab Sample ID: 240-94866-43

Date Collected: 04/30/18 11:12

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-043

Lab Sample ID: 240-94866-43

Date Collected: 04/30/18 11:12

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325187	05/03/18 08:49	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325320	05/04/18 14:18	LSH	TAL CAN

Client Sample ID: SO-17322-043018-DR-044

Lab Sample ID: 240-94866-44

Date Collected: 04/30/18 11:25

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-044

Lab Sample ID: 240-94866-44

Date Collected: 04/30/18 11:25

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325187	05/03/18 08:49	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325320	05/04/18 14:36	LSH	TAL CAN

Client Sample ID: SO-17322-043018-DR-045

Lab Sample ID: 240-94866-45

Date Collected: 04/30/18 11:30

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-045

Lab Sample ID: 240-94866-45

Date Collected: 04/30/18 11:30

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325187	05/03/18 08:49	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325320	05/04/18 16:26	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-046

Lab Sample ID: 240-94866-46

Date Collected: 04/30/18 11:32

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-046

Lab Sample ID: 240-94866-46

Date Collected: 04/30/18 11:32

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325187	05/03/18 08:49	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325320	05/04/18 16:44	LSH	TAL CAN

Client Sample ID: SO-17322-043018-DR-047

Lab Sample ID: 240-94866-47

Date Collected: 04/30/18 11:35

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-047

Lab Sample ID: 240-94866-47

Date Collected: 04/30/18 11:35

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325187	05/03/18 08:49	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325320	05/04/18 17:03	LSH	TAL CAN

Client Sample ID: SO-17322-043018-DR-048

Lab Sample ID: 240-94866-48

Date Collected: 04/30/18 11:40

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-048

Lab Sample ID: 240-94866-48

Date Collected: 04/30/18 11:40

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325187	05/03/18 08:49	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325320	05/04/18 17:21	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Client Sample ID: SO-17322-043018-DR-049

Lab Sample ID: 240-94866-49

Date Collected: 04/30/18 11:42

Matrix: Solid

Date Received: 05/01/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	325028	05/02/18 11:05	SEM	TAL CAN

Client Sample ID: SO-17322-043018-DR-049

Lab Sample ID: 240-94866-49

Date Collected: 04/30/18 11:42

Matrix: Solid

Date Received: 05/01/18 10:00

Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			325187	05/03/18 08:49	DVT	TAL CAN
Total/NA	Analysis	8082A		1	325320	05/04/18 17:39	LSH	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-94866-1

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-19
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-18 *
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-19
Kentucky (UST)	State Program	4	58	02-23-19
Kentucky (WW)	State Program	4	98016	12-31-18
Minnesota	NELAP	5	039-999-348	12-31-18
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18 *
New York	NELAP	2	10975	03-31-19
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-19
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

MICHIGAN
190

Chain of Custody Record

264410

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
5500
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Company Name: GHD Services		Client Contact		Project Manager: M. Ceran		Site Contact: J. Abster		Date: 4/30/18		GOG No: 017322-006	
Address: 2699 Hugobly Rd		Tel/Fax:		Analysis Turnaround Time		Lab Contact: D. Hecker		Carrier: FED EX		2 of 3 COCs	
City/State/Zip: Pontiac, MI 48116		☐ CALENDAR DAYS ☐ WORKING DAYS		TAT if different from Below		Perform MS / MSD (Y / N)		For Lab Use Only:		Sampler: D. Rivers	
Phone: (248) 893-3400		☒ 2 weeks		☐ 1 week		Filtered Sample (Y / N)		Walk-in Client:		Lab Sampling:	
Fax: (248) 893-3400		☐ 2 days		☐ 1 day		Sample Type (C=Comp, G=Grab)		Job / SDG No.:		017322A-107	
Project Name: PCC-Validation		Sample Date		Sample Time		# of Cont.		Sample Specific Notes:			
Site: Pontiac, MI		4/30/18		910		50					
PO #		-014		920		1					
		-015		922		1					
		-016		925		1					
		-017		927		1					
		-018		930		1					
		-019		933		1					
		-020		936		1					
		-021		945		1					
		-022		950		1					
		-023		953		1					
		-024		955		1					
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other											
Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.											
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown											
Special Instructions/QC Requirements & Comments:											
Custody Seals Intact: ☐ Yes ☐ No				Custody Seal No.:				Cooler Temp. (°C): Obs'd: Cor'd:			
Relinquished by: D. Rivers				Company: GHD				Received by: Jen Davis			
Relinquished by:				Date/Time: 4/30/18 1600				Date/Time: 5/1/18 1000			
Relinquished by:				Company:				Company:			
Relinquished by:				Date/Time:				Date/Time:			

TESTAMERICA MICHIGAN
10448 Citation Drive
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Brighton, MI 48116
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Chain of Custody Record

264411

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
9550
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Company Name: GAD Services		Client Contact		Project Manager: M. Loran		Site Contact: S. Absor		Date: 4/18/18		COC No: 017322-006	
Address: 26850 Hagerly Rd				Tel/Fax:		Lab Contact: D. K. Loran		Carrier: PEDI		3 of 5 COCs	
City/State/Zip: Farmington Hills, MI				☐ CALENDAR DAYS ☐ WORKING DAYS							
Phone: (248) 293-3400				TAT if different from Below							
Fax:				☒ 2 weeks							
Project Name: POC Validation				☐ 1 week							
Site: Pontiac, MI				☐ 2 days							
PO #				☐ 1 day							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:				
50-17322-043018-DR-025	4/30/18	1000	G	SO		1					
-026		1010				1					
-027		1012				1					
-028		1017				1					
-029		1020				1					
-030		1023				1					
-031		1025				1					
-032		1027				1					
-033		1040				1					
-034		1042				1					
-035		1047				1					
-036		1050				1					
Preservation Used: (1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other)							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Possible Hazard Identification:											
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.											
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown							☐ Return to Client ☐ Disposal by Lab ☐ Archive for Months				
Special Instructions/QC Requirements & Comments:											
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temp. (°C):		Obs'd:		Cor'd:		Therm ID No.:	
Relinquished by: D. Rivers		Company: CHD		Date/Time: 4/30/18 1600		Received by: Joe RAB		Company: TAC		Date/Time: 5/1/18 1000	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		Date/Time:	

TestAmerica Michigan
10448 Citation Drive
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Chain of Custody Record

264412

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: M. Curran		Site Contact: S. Abston		Date: 4/30/18	
Company Name: GHD Services		Tel/Fax:		Lab Contact: D. Hedley		Carrier: FedEx	
Address: 26850 Hopewell Rd		Analysis Turnaround Time		For Lab Use Only:		Sampler: D. Russ	
City/State/Zip: Farmington Hills, MI		☐ CALENDAR DAYS ☐ WORKING DAYS		Walk-in Client:		Lab Sampling:	
Phone: (248) 893-3400		TAT if different from Below		Job / SDG No.:		017322-15707	
Fax:		2 weeks 1 week 2 days 1 day		Sample Specific Notes:			
Project Name: POC Validation							
Site: Pontiac, MI							
PO #							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	
50-17322-043018-DR-037		4/30/18	1053	G	SO	1	
-038			1055				
-039			1100				
-040			1105				
-041			1107				
-042			1110				
-043			1112				
-044			1125				
-045			1130				
-046			1132				
-047			1135				
-048			1140				
Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other							
Possible Hazard Identification:							
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.							
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown							
Special Instructions/QC Requirements & Comments:							
Custody Seals Intact: ☐ Yes ☐ No							
Relinquished by: D. Russ		Company: GHD		Date/Time: 4/30/18		Received by: J. M. M.	
Relinquished by:		Company:		Date/Time:		Received by:	
Relinquished by:		Company:		Date/Time:		Received by:	
Custody Seal No.:		Company: JAC		Date/Time: 5/1/18		Therm ID No.:	

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Chain of Custody Record

264413

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Company Name: GHD Services Address: 26850 Hazelton Rd City/State/Zip: Farmington Hills, MI 48334 Phone: (248) 893-3400 Fax: (248) 893-3400		Client Contact Project Name: POC Validation Site: Pontiac, MI PO #		Project Manager: M. Coran Tel/Fax:		Site Contact: J. Absten Lab Contact: D. Heckler		Date: 4/30/18 Carrier: PAPER		EOC No: 017322-006 S of S COCs	
Analysis Turnaround Time ☐ CALENDAR DAYS ☐ WORKING DAYS TAT if different from Below ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Sample Date: 4/30/18		Sample Time: 142		Sample Type: G		Matrix: S		# of Cont: 1	
Sample Identification SO-17322-043018-DN-049		Sample Date: 4/30/18		Sample Time: 142		Sample Type: G		Matrix: S		# of Cont: 1	
Sample Specific Notes: PCBs X											
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other											
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown											
Special Instructions/QC Requirements & Comments: 1											
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temp. (°C): Obs'd:		Cor'd:		Therm ID No.:		Date/Time: 5/1/18 1000	
Relinquished by: D. Rivers		Company: GHD		Received by: Jessica Rivers		Company: HEC		Date/Time: 5/1/18 1000		Date/Time: 5/1/18 1000	
Relinquished by:		Company:		Received in Laboratory by:		Company:		Date/Time:		Date/Time:	

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 94866

Client GHD Services Site Name _____ Cooler unpacked by: [Signature]
 Cooler Received on 5/1/18 Opened on 5/1/18
 FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # TAC Foam Box Client Cooler Box Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None Other Box
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
 IR GUN# IR-8 (CF +0.1 °C) Observed Cooler Temp. 1.6 °C Corrected Cooler Temp. 1.7 °C
 IR GUN #36 (CF +0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN # 627 (CF -1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
 -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
- If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC732776
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? Yes ☒ Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
16. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:
 VOAs
 Oil and Grease
 TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: _____

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-96374-1

Client Project/Site: 17322A-T06, PCC Validation

For:

GHD Services Inc.

26850 Haggerty Rd.

Farmington Hills, Michigan 48331

Attn: James Abston



Authorized for release by:

6/15/2018 7:57:46 AM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

LINKS

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results through

TotalAccess

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

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7

8

9

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11

12

13

14

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Sample Summary	5
Detection Summary	6
Method Summary	8
Client Sample Results	9
QC Association Summary	37
QC Sample Results	39
Surrogate Summary	41
Lab Chronicle	42
Certification Summary	47
Chain of Custody	48



Case Narrative

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Job ID: 240-96374-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative 240-96374-1

Comments

No additional comments.

Receipt

The samples were received on 5/31/2018 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

GC Semi VOA

Method(s) 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: S-17322A-052918-SK-015 (240-96374-15), (240-96374-B-15-C MS) and (240-96374-B-15-D MSD). 3627625,3449340,3361890

Method(s) 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: S-17322A-052918-SK-001 (240-96374-1), S-17322A-052918-SK-002 (240-96374-2), S-17322A-052918-SK-003 (240-96374-3), S-17322A-052918-SK-004 (240-96374-4), S-17322A-052918-SK-005 (240-96374-5) and S-17322A-052918-SK-006 (240-96374-6). 3627625, 3449340, 3361890.

Method(s) 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: S-17322A-052918-SK-011 (240-96374-11) and S-17322A-052918-SK-014 (240-96374-14). 3627625, 3449340, 3361890.

Method(s) 8082A: The following samples were diluted due to the nature of the sample matrix : S-17322A-052918-SK-008 (240-96374-8) and S-17322A-052918-SK-010 (240-96374-10). As such, surrogate recoveries may be below the calibration range, and elevated reporting limits (RLs) are provided.

Method(s) 8082A: The following samples appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: S-17322A-052918-SK-009 (240-96374-9). The samples have been quantified and reported using the best overall Aroclor/standard pattern match relative to the reference standards.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-96374-1	S-17322A-052918-SK-001	Solid	05/29/18 08:15	05/31/18 10:30
240-96374-2	S-17322A-052918-SK-002	Solid	05/29/18 08:20	05/31/18 10:30
240-96374-3	S-17322A-052918-SK-003	Solid	05/29/18 08:25	05/31/18 10:30
240-96374-4	S-17322A-052918-SK-004	Solid	05/29/18 08:30	05/31/18 10:30
240-96374-5	S-17322A-052918-SK-005	Solid	05/29/18 08:35	05/31/18 10:30
240-96374-6	S-17322A-052918-SK-006	Solid	05/29/18 08:40	05/31/18 10:30
240-96374-7	S-17322A-052918-SK-007	Solid	05/29/18 08:45	05/31/18 10:30
240-96374-8	S-17322A-052918-SK-008	Solid	05/29/18 08:50	05/31/18 10:30
240-96374-9	S-17322A-052918-SK-009	Solid	05/29/18 08:55	05/31/18 10:30
240-96374-10	S-17322A-052918-SK-010	Solid	05/29/18 09:00	05/31/18 10:30
240-96374-11	S-17322A-052918-SK-011	Solid	05/29/18 09:05	05/31/18 10:30
240-96374-12	S-17322A-052918-SK-012	Solid	05/29/18 09:10	05/31/18 10:30
240-96374-14	S-17322A-052918-SK-014	Solid	05/29/18 09:20	05/31/18 10:30
240-96374-15	S-17322A-052918-SK-015	Solid	05/29/18 09:25	05/31/18 10:30

TestAmerica Canton

Detection Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Client Sample ID: S-17322A-052918-SK-001

Lab Sample ID: 240-96374-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	250		55	25	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: S-17322A-052918-SK-002

Lab Sample ID: 240-96374-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1400		58	27	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: S-17322A-052918-SK-003

Lab Sample ID: 240-96374-3

No Detections.

Client Sample ID: S-17322A-052918-SK-004

Lab Sample ID: 240-96374-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	100		58	27	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: S-17322A-052918-SK-005

Lab Sample ID: 240-96374-5

No Detections.

Client Sample ID: S-17322A-052918-SK-006

Lab Sample ID: 240-96374-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	330		55	25	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: S-17322A-052918-SK-007

Lab Sample ID: 240-96374-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	910		53	24	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: S-17322A-052918-SK-008

Lab Sample ID: 240-96374-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	9900		1100	510	ug/Kg	20	☒	8082A	Total/NA

Client Sample ID: S-17322A-052918-SK-009

Lab Sample ID: 240-96374-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	310	p	54	25	ug/Kg	1	☒	8082A	Total/NA

Client Sample ID: S-17322A-052918-SK-010

Lab Sample ID: 240-96374-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	8400		590	270	ug/Kg	10	☒	8082A	Total/NA

Client Sample ID: S-17322A-052918-SK-011

Lab Sample ID: 240-96374-11

No Detections.

Client Sample ID: S-17322A-052918-SK-012

Lab Sample ID: 240-96374-12

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Client Sample ID: S-17322A-052918-SK-012 (Continued)

Lab Sample ID: 240-96374-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	31	J	57	26	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: S-17322A-052918-SK-014

Lab Sample ID: 240-96374-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	130		57	26	ug/Kg	1	☼	8082A	Total/NA

Client Sample ID: S-17322A-052918-SK-015

Lab Sample ID: 240-96374-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	30	J	54	25	ug/Kg	1	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN
3540C	Soxhlet Extraction	SW846	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-17322A-052918-SK-001

Date Collected: 05/29/18 08:15

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-1

Matrix: Solid

Percent Solids: 88.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	55	U	55	24	ug/Kg	☼	06/13/18 10:32	06/14/18 11:34	1
Aroclor-1221	55	U	55	26	ug/Kg	☼	06/13/18 10:32	06/14/18 11:34	1
Aroclor-1232	55	U	55	25	ug/Kg	☼	06/13/18 10:32	06/14/18 11:34	1
Aroclor-1242	55	U	55	21	ug/Kg	☼	06/13/18 10:32	06/14/18 11:34	1
Aroclor-1248	55	U	55	26	ug/Kg	☼	06/13/18 10:32	06/14/18 11:34	1
Aroclor-1254	250		55	25	ug/Kg	☼	06/13/18 10:32	06/14/18 11:34	1
Aroclor-1260	55	U	55	24	ug/Kg	☼	06/13/18 10:32	06/14/18 11:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		14 - 128	06/13/18 10:32	06/14/18 11:34	1
DCB Decachlorobiphenyl	85	p	10 - 132	06/13/18 10:32	06/14/18 11:34	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-17322A-052918-SK-002

Date Collected: 05/29/18 08:20

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-2

Matrix: Solid

Percent Solids: 86.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	58	U	58	26	ug/Kg	☼	06/13/18 10:32	06/14/18 11:52	1
Aroclor-1221	58	U	58	28	ug/Kg	☼	06/13/18 10:32	06/14/18 11:52	1
Aroclor-1232	58	U	58	27	ug/Kg	☼	06/13/18 10:32	06/14/18 11:52	1
Aroclor-1242	58	U	58	22	ug/Kg	☼	06/13/18 10:32	06/14/18 11:52	1
Aroclor-1248	58	U	58	28	ug/Kg	☼	06/13/18 10:32	06/14/18 11:52	1
Aroclor-1254	1400		58	27	ug/Kg	☼	06/13/18 10:32	06/14/18 11:52	1
Aroclor-1260	58	U	58	26	ug/Kg	☼	06/13/18 10:32	06/14/18 11:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		14 - 128	06/13/18 10:32	06/14/18 11:52	1
DCB Decachlorobiphenyl	107	p	10 - 132	06/13/18 10:32	06/14/18 11:52	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-17322A-052918-SK-003

Date Collected: 05/29/18 08:25

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-3

Matrix: Solid

Percent Solids: 82.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	63	U	63	28	ug/Kg	☼	06/13/18 10:32	06/14/18 12:09	1
Aroclor-1221	63	U	63	30	ug/Kg	☼	06/13/18 10:32	06/14/18 12:09	1
Aroclor-1232	63	U	63	29	ug/Kg	☼	06/13/18 10:32	06/14/18 12:09	1
Aroclor-1242	63	U	63	24	ug/Kg	☼	06/13/18 10:32	06/14/18 12:09	1
Aroclor-1248	63	U	63	30	ug/Kg	☼	06/13/18 10:32	06/14/18 12:09	1
Aroclor-1254	63	U	63	29	ug/Kg	☼	06/13/18 10:32	06/14/18 12:09	1
Aroclor-1260	63	U	63	28	ug/Kg	☼	06/13/18 10:32	06/14/18 12:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		14 - 128				06/13/18 10:32	06/14/18 12:09	1
DCB Decachlorobiphenyl	94	p	10 - 132				06/13/18 10:32	06/14/18 12:09	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-17322A-052918-SK-004

Date Collected: 05/29/18 08:30

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-4

Matrix: Solid

Percent Solids: 82.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	58	U	58	26	ug/Kg	☼	06/13/18 10:32	06/14/18 12:27	1
Aroclor-1221	58	U	58	28	ug/Kg	☼	06/13/18 10:32	06/14/18 12:27	1
Aroclor-1232	58	U	58	27	ug/Kg	☼	06/13/18 10:32	06/14/18 12:27	1
Aroclor-1242	58	U	58	22	ug/Kg	☼	06/13/18 10:32	06/14/18 12:27	1
Aroclor-1248	58	U	58	28	ug/Kg	☼	06/13/18 10:32	06/14/18 12:27	1
Aroclor-1254	100		58	27	ug/Kg	☼	06/13/18 10:32	06/14/18 12:27	1
Aroclor-1260	58	U	58	26	ug/Kg	☼	06/13/18 10:32	06/14/18 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		14 - 128	06/13/18 10:32	06/14/18 12:27	1
DCB Decachlorobiphenyl	72	p	10 - 132	06/13/18 10:32	06/14/18 12:27	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-17322A-052918-SK-005

Date Collected: 05/29/18 08:35

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-5

Matrix: Solid

Percent Solids: 81.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	64	U	64	28	ug/Kg	☼	06/13/18 10:32	06/14/18 12:44	1
Aroclor-1221	64	U	64	31	ug/Kg	☼	06/13/18 10:32	06/14/18 12:44	1
Aroclor-1232	64	U	64	29	ug/Kg	☼	06/13/18 10:32	06/14/18 12:44	1
Aroclor-1242	64	U	64	24	ug/Kg	☼	06/13/18 10:32	06/14/18 12:44	1
Aroclor-1248	64	U	64	31	ug/Kg	☼	06/13/18 10:32	06/14/18 12:44	1
Aroclor-1254	64	U	64	29	ug/Kg	☼	06/13/18 10:32	06/14/18 12:44	1
Aroclor-1260	64	U	64	28	ug/Kg	☼	06/13/18 10:32	06/14/18 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		14 - 128	06/13/18 10:32	06/14/18 12:44	1
DCB Decachlorobiphenyl	104	p	10 - 132	06/13/18 10:32	06/14/18 12:44	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-17322A-052918-SK-006

Date Collected: 05/29/18 08:40

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-6

Matrix: Solid

Percent Solids: 89.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	55	U	55	24	ug/Kg	☼	06/13/18 10:32	06/14/18 13:02	1
Aroclor-1221	55	U	55	26	ug/Kg	☼	06/13/18 10:32	06/14/18 13:02	1
Aroclor-1232	55	U	55	25	ug/Kg	☼	06/13/18 10:32	06/14/18 13:02	1
Aroclor-1242	55	U	55	21	ug/Kg	☼	06/13/18 10:32	06/14/18 13:02	1
Aroclor-1248	55	U	55	26	ug/Kg	☼	06/13/18 10:32	06/14/18 13:02	1
Aroclor-1254	330		55	25	ug/Kg	☼	06/13/18 10:32	06/14/18 13:02	1
Aroclor-1260	55	U	55	24	ug/Kg	☼	06/13/18 10:32	06/14/18 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	61		14 - 128	06/13/18 10:32	06/14/18 13:02	1
DCB Decachlorobiphenyl	89	p	10 - 132	06/13/18 10:32	06/14/18 13:02	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-17322A-052918-SK-007

Date Collected: 05/29/18 08:45

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-7

Matrix: Solid

Percent Solids: 91.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	53	U	53	23	ug/Kg	☼	06/13/18 10:32	06/14/18 11:46	1
Aroclor-1221	53	U	53	25	ug/Kg	☼	06/13/18 10:32	06/14/18 11:46	1
Aroclor-1232	53	U	53	24	ug/Kg	☼	06/13/18 10:32	06/14/18 11:46	1
Aroclor-1242	53	U	53	20	ug/Kg	☼	06/13/18 10:32	06/14/18 11:46	1
Aroclor-1248	53	U	53	25	ug/Kg	☼	06/13/18 10:32	06/14/18 11:46	1
Aroclor-1254	910		53	24	ug/Kg	☼	06/13/18 10:32	06/14/18 11:46	1
Aroclor-1260	53	U	53	23	ug/Kg	☼	06/13/18 10:32	06/14/18 11:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	58		14 - 128	06/13/18 10:32	06/14/18 11:46	1
DCB Decachlorobiphenyl	57	p	10 - 132	06/13/18 10:32	06/14/18 11:46	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-17322A-052918-SK-008

Date Collected: 05/29/18 08:50

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-8

Matrix: Solid

Percent Solids: 89.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1100	U	1100	490	ug/Kg	☼	06/13/18 10:32	06/14/18 12:04	20
Aroclor-1221	1100	U	1100	530	ug/Kg	☼	06/13/18 10:32	06/14/18 12:04	20
Aroclor-1232	1100	U	1100	510	ug/Kg	☼	06/13/18 10:32	06/14/18 12:04	20
Aroclor-1242	1100	U	1100	420	ug/Kg	☼	06/13/18 10:32	06/14/18 12:04	20
Aroclor-1248	1100	U	1100	530	ug/Kg	☼	06/13/18 10:32	06/14/18 12:04	20
Aroclor-1254	9900		1100	510	ug/Kg	☼	06/13/18 10:32	06/14/18 12:04	20
Aroclor-1260	1100	U	1100	490	ug/Kg	☼	06/13/18 10:32	06/14/18 12:04	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		14 - 128	06/13/18 10:32	06/14/18 12:04	20
DCB Decachlorobiphenyl	73	p	10 - 132	06/13/18 10:32	06/14/18 12:04	20

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-17322A-052918-SK-009

Date Collected: 05/29/18 08:55

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-9

Matrix: Solid

Percent Solids: 89.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	54	U	54	24	ug/Kg	☼	06/13/18 10:32	06/14/18 12:21	1
Aroclor-1221	54	U	54	26	ug/Kg	☼	06/13/18 10:32	06/14/18 12:21	1
Aroclor-1232	54	U	54	25	ug/Kg	☼	06/13/18 10:32	06/14/18 12:21	1
Aroclor-1242	54	U	54	20	ug/Kg	☼	06/13/18 10:32	06/14/18 12:21	1
Aroclor-1248	54	U	54	26	ug/Kg	☼	06/13/18 10:32	06/14/18 12:21	1
Aroclor-1254	310	p	54	25	ug/Kg	☼	06/13/18 10:32	06/14/18 12:21	1
Aroclor-1260	54	U	54	24	ug/Kg	☼	06/13/18 10:32	06/14/18 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	63		14 - 128	06/13/18 10:32	06/14/18 12:21	1
DCB Decachlorobiphenyl	69	p	10 - 132	06/13/18 10:32	06/14/18 12:21	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-17322A-052918-SK-010

Date Collected: 05/29/18 09:00

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-10

Matrix: Solid

Percent Solids: 84.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	590	U	590	260	ug/Kg	☼	06/13/18 10:32	06/14/18 12:39	10
Aroclor-1221	590	U	590	280	ug/Kg	☼	06/13/18 10:32	06/14/18 12:39	10
Aroclor-1232	590	U	590	270	ug/Kg	☼	06/13/18 10:32	06/14/18 12:39	10
Aroclor-1242	590	U	590	220	ug/Kg	☼	06/13/18 10:32	06/14/18 12:39	10
Aroclor-1248	590	U	590	280	ug/Kg	☼	06/13/18 10:32	06/14/18 12:39	10
Aroclor-1254	8400		590	270	ug/Kg	☼	06/13/18 10:32	06/14/18 12:39	10
Aroclor-1260	590	U	590	260	ug/Kg	☼	06/13/18 10:32	06/14/18 12:39	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	112		14 - 128	06/13/18 10:32	06/14/18 12:39	10
DCB Decachlorobiphenyl	79	p	10 - 132	06/13/18 10:32	06/14/18 12:39	10

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-17322A-052918-SK-011

Date Collected: 05/29/18 09:05

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-11

Matrix: Solid

Percent Solids: 88.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	55	U	55	24	ug/Kg	☼	06/13/18 10:32	06/14/18 12:56	1
Aroclor-1221	55	U	55	27	ug/Kg	☼	06/13/18 10:32	06/14/18 12:56	1
Aroclor-1232	55	U	55	26	ug/Kg	☼	06/13/18 10:32	06/14/18 12:56	1
Aroclor-1242	55	U	55	21	ug/Kg	☼	06/13/18 10:32	06/14/18 12:56	1
Aroclor-1248	55	U	55	27	ug/Kg	☼	06/13/18 10:32	06/14/18 12:56	1
Aroclor-1254	55	U	55	26	ug/Kg	☼	06/13/18 10:32	06/14/18 12:56	1
Aroclor-1260	55	U	55	24	ug/Kg	☼	06/13/18 10:32	06/14/18 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	55		14 - 128				06/13/18 10:32	06/14/18 12:56	1
DCB Decachlorobiphenyl	64	p	10 - 132				06/13/18 10:32	06/14/18 12:56	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-17322A-052918-SK-012

Date Collected: 05/29/18 09:10

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-12

Matrix: Solid

Percent Solids: 90.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	57	U	57	25	ug/Kg	☼	06/13/18 10:32	06/14/18 13:13	1
Aroclor-1221	57	U	57	27	ug/Kg	☼	06/13/18 10:32	06/14/18 13:13	1
Aroclor-1232	57	U	57	26	ug/Kg	☼	06/13/18 10:32	06/14/18 13:13	1
Aroclor-1242	57	U	57	22	ug/Kg	☼	06/13/18 10:32	06/14/18 13:13	1
Aroclor-1248	57	U	57	27	ug/Kg	☼	06/13/18 10:32	06/14/18 13:13	1
Aroclor-1254	31	J	57	26	ug/Kg	☼	06/13/18 10:32	06/14/18 13:13	1
Aroclor-1260	57	U	57	25	ug/Kg	☼	06/13/18 10:32	06/14/18 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		14 - 128	06/13/18 10:32	06/14/18 13:13	1
DCB Decachlorobiphenyl	106	p	10 - 132	06/13/18 10:32	06/14/18 13:13	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-17322A-052918-SK-014

Date Collected: 05/29/18 09:20

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-14

Matrix: Solid

Percent Solids: 88.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	57	U	57	25	ug/Kg	☼	06/13/18 10:32	06/14/18 13:31	1
Aroclor-1221	57	U	57	27	ug/Kg	☼	06/13/18 10:32	06/14/18 13:31	1
Aroclor-1232	57	U	57	26	ug/Kg	☼	06/13/18 10:32	06/14/18 13:31	1
Aroclor-1242	57	U	57	22	ug/Kg	☼	06/13/18 10:32	06/14/18 13:31	1
Aroclor-1248	57	U	57	27	ug/Kg	☼	06/13/18 10:32	06/14/18 13:31	1
Aroclor-1254	130		57	26	ug/Kg	☼	06/13/18 10:32	06/14/18 13:31	1
Aroclor-1260	57	U	57	25	ug/Kg	☼	06/13/18 10:32	06/14/18 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		14 - 128	06/13/18 10:32	06/14/18 13:31	1
DCB Decachlorobiphenyl	81	p	10 - 132	06/13/18 10:32	06/14/18 13:31	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-17322A-052918-SK-015

Date Collected: 05/29/18 09:25

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-15

Matrix: Solid

Percent Solids: 90.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	54	U	54	24	ug/Kg	☼	06/13/18 10:32	06/14/18 11:17	1
Aroclor-1221	54	U	54	26	ug/Kg	☼	06/13/18 10:32	06/14/18 11:17	1
Aroclor-1232	54	U	54	25	ug/Kg	☼	06/13/18 10:32	06/14/18 11:17	1
Aroclor-1242	54	U	54	20	ug/Kg	☼	06/13/18 10:32	06/14/18 11:17	1
Aroclor-1248	54	U	54	26	ug/Kg	☼	06/13/18 10:32	06/14/18 11:17	1
Aroclor-1254	30	J	54	25	ug/Kg	☼	06/13/18 10:32	06/14/18 11:17	1
Aroclor-1260	54	U	54	24	ug/Kg	☼	06/13/18 10:32	06/14/18 11:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		14 - 128	06/13/18 10:32	06/14/18 11:17	1
DCB Decachlorobiphenyl	58		10 - 132	06/13/18 10:32	06/14/18 11:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

General Chemistry

Client Sample ID: S-17322A-052918-SK-001

Date Collected: 05/29/18 08:15

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-1

Matrix: Solid

Percent Solids: 88.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.1		0.1	0.1	%			06/05/18 13:14	1
Percent Moisture	11.9		0.1	0.1	%			06/05/18 13:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

General Chemistry

Client Sample ID: S-17322A-052918-SK-002

Date Collected: 05/29/18 08:20

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-2

Matrix: Solid

Percent Solids: 86.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.0		0.1	0.1	%			06/05/18 13:14	1
Percent Moisture	14.0		0.1	0.1	%			06/05/18 13:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

General Chemistry

Client Sample ID: S-17322A-052918-SK-003

Date Collected: 05/29/18 08:25

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-3

Matrix: Solid

Percent Solids: 82.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.3		0.1	0.1	%			06/05/18 13:14	1
Percent Moisture	17.7		0.1	0.1	%			06/05/18 13:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

General Chemistry

Client Sample ID: S-17322A-052918-SK-004

Date Collected: 05/29/18 08:30

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-4

Matrix: Solid

Percent Solids: 82.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.7		0.1	0.1	%			06/05/18 13:14	1
Percent Moisture	17.3		0.1	0.1	%			06/05/18 13:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

General Chemistry

Client Sample ID: S-17322A-052918-SK-005

Date Collected: 05/29/18 08:35

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-5

Matrix: Solid

Percent Solids: 81.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.8		0.1	0.1	%			06/05/18 13:14	1
Percent Moisture	18.2		0.1	0.1	%			06/05/18 13:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

General Chemistry

Client Sample ID: S-17322A-052918-SK-006

Date Collected: 05/29/18 08:40

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-6

Matrix: Solid

Percent Solids: 89.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.3		0.1	0.1	%			06/05/18 13:14	1
Percent Moisture	10.7		0.1	0.1	%			06/05/18 13:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

General Chemistry

Client Sample ID: S-17322A-052918-SK-007

Date Collected: 05/29/18 08:45

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-7

Matrix: Solid

Percent Solids: 91.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91.4		0.1	0.1	%			06/05/18 13:14	1
Percent Moisture	8.6		0.1	0.1	%			06/05/18 13:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

General Chemistry

Client Sample ID: S-17322A-052918-SK-008

Date Collected: 05/29/18 08:50

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-8

Matrix: Solid

Percent Solids: 89.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.6		0.1	0.1	%			06/05/18 13:14	1
Percent Moisture	10.4		0.1	0.1	%			06/05/18 13:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

General Chemistry

Client Sample ID: S-17322A-052918-SK-009

Date Collected: 05/29/18 08:55

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-9

Matrix: Solid

Percent Solids: 89.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.7		0.1	0.1	%			06/05/18 13:14	1
Percent Moisture	10.3		0.1	0.1	%			06/05/18 13:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

General Chemistry

Client Sample ID: S-17322A-052918-SK-010

Date Collected: 05/29/18 09:00

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-10

Matrix: Solid

Percent Solids: 84.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.9		0.1	0.1	%			06/05/18 13:14	1
Percent Moisture	15.1		0.1	0.1	%			06/05/18 13:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

General Chemistry

Client Sample ID: S-17322A-052918-SK-011

Date Collected: 05/29/18 09:05

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-11

Matrix: Solid

Percent Solids: 88.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.7		0.1	0.1	%			06/05/18 13:14	1
Percent Moisture	11.3		0.1	0.1	%			06/05/18 13:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

General Chemistry

Client Sample ID: S-17322A-052918-SK-012

Date Collected: 05/29/18 09:10

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-12

Matrix: Solid

Percent Solids: 90.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.3		0.1	0.1	%			06/05/18 13:14	1
Percent Moisture	9.7		0.1	0.1	%			06/05/18 13:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

General Chemistry

Client Sample ID: S-17322A-052918-SK-014

Date Collected: 05/29/18 09:20

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-14

Matrix: Solid

Percent Solids: 88.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.3		0.1	0.1	%			06/05/18 13:14	1
Percent Moisture	11.7		0.1	0.1	%			06/05/18 13:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

General Chemistry

Client Sample ID: S-17322A-052918-SK-015

Date Collected: 05/29/18 09:25

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-15

Matrix: Solid

Percent Solids: 90.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.7		0.1	0.1	%			06/05/18 13:14	1
Percent Moisture	9.3		0.1	0.1	%			06/05/18 13:14	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

GC Semi VOA

Prep Batch: 331447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-96374-1	S-17322A-052918-SK-001	Total/NA	Solid	3540C	
240-96374-2	S-17322A-052918-SK-002	Total/NA	Solid	3540C	
240-96374-3	S-17322A-052918-SK-003	Total/NA	Solid	3540C	
240-96374-4	S-17322A-052918-SK-004	Total/NA	Solid	3540C	
240-96374-5	S-17322A-052918-SK-005	Total/NA	Solid	3540C	
240-96374-6	S-17322A-052918-SK-006	Total/NA	Solid	3540C	
240-96374-7	S-17322A-052918-SK-007	Total/NA	Solid	3540C	
240-96374-8	S-17322A-052918-SK-008	Total/NA	Solid	3540C	
240-96374-9	S-17322A-052918-SK-009	Total/NA	Solid	3540C	
240-96374-10	S-17322A-052918-SK-010	Total/NA	Solid	3540C	
240-96374-11	S-17322A-052918-SK-011	Total/NA	Solid	3540C	
240-96374-12	S-17322A-052918-SK-012	Total/NA	Solid	3540C	
240-96374-14	S-17322A-052918-SK-014	Total/NA	Solid	3540C	
240-96374-15	S-17322A-052918-SK-015	Total/NA	Solid	3540C	
MB 240-331447/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-331447/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-96374-15 MS	S-17322A-052918-SK-015	Total/NA	Solid	3540C	
240-96374-15 MSD	S-17322A-052918-SK-015	Total/NA	Solid	3540C	

Analysis Batch: 331533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-96374-7	S-17322A-052918-SK-007	Total/NA	Solid	8082A	331447
240-96374-8	S-17322A-052918-SK-008	Total/NA	Solid	8082A	331447
240-96374-9	S-17322A-052918-SK-009	Total/NA	Solid	8082A	331447
240-96374-10	S-17322A-052918-SK-010	Total/NA	Solid	8082A	331447
240-96374-11	S-17322A-052918-SK-011	Total/NA	Solid	8082A	331447
240-96374-12	S-17322A-052918-SK-012	Total/NA	Solid	8082A	331447
240-96374-14	S-17322A-052918-SK-014	Total/NA	Solid	8082A	331447

Analysis Batch: 331542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-96374-15	S-17322A-052918-SK-015	Total/NA	Solid	8082A	331447
MB 240-331447/23-A	Method Blank	Total/NA	Solid	8082A	331447
LCS 240-331447/24-A	Lab Control Sample	Total/NA	Solid	8082A	331447
MRL 240-331542/2	Lab Control Sample	Total/NA	Solid	8082A	
240-96374-15 MS	S-17322A-052918-SK-015	Total/NA	Solid	8082A	331447
240-96374-15 MSD	S-17322A-052918-SK-015	Total/NA	Solid	8082A	331447

Analysis Batch: 331545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-96374-1	S-17322A-052918-SK-001	Total/NA	Solid	8082A	331447
240-96374-2	S-17322A-052918-SK-002	Total/NA	Solid	8082A	331447
240-96374-3	S-17322A-052918-SK-003	Total/NA	Solid	8082A	331447
240-96374-4	S-17322A-052918-SK-004	Total/NA	Solid	8082A	331447
240-96374-5	S-17322A-052918-SK-005	Total/NA	Solid	8082A	331447
240-96374-6	S-17322A-052918-SK-006	Total/NA	Solid	8082A	331447

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

General Chemistry

Analysis Batch: 330128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-96374-1	S-17322A-052918-SK-001	Total/NA	Solid	Moisture	
240-96374-2	S-17322A-052918-SK-002	Total/NA	Solid	Moisture	
240-96374-3	S-17322A-052918-SK-003	Total/NA	Solid	Moisture	
240-96374-4	S-17322A-052918-SK-004	Total/NA	Solid	Moisture	
240-96374-5	S-17322A-052918-SK-005	Total/NA	Solid	Moisture	
240-96374-6	S-17322A-052918-SK-006	Total/NA	Solid	Moisture	
240-96374-7	S-17322A-052918-SK-007	Total/NA	Solid	Moisture	
240-96374-8	S-17322A-052918-SK-008	Total/NA	Solid	Moisture	
240-96374-9	S-17322A-052918-SK-009	Total/NA	Solid	Moisture	
240-96374-10	S-17322A-052918-SK-010	Total/NA	Solid	Moisture	
240-96374-11	S-17322A-052918-SK-011	Total/NA	Solid	Moisture	
240-96374-12	S-17322A-052918-SK-012	Total/NA	Solid	Moisture	
240-96374-14	S-17322A-052918-SK-014	Total/NA	Solid	Moisture	
240-96374-15	S-17322A-052918-SK-015	Total/NA	Solid	Moisture	
240-96374-8 DU	S-17322A-052918-SK-008	Total/NA	Solid	Moisture	

QC Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-331447/23-A

Matrix: Solid

Analysis Batch: 331542

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 331447

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	50	U	50	22	ug/Kg		06/13/18 10:32	06/14/18 10:38	1
Aroclor-1221	50	U	50	24	ug/Kg		06/13/18 10:32	06/14/18 10:38	1
Aroclor-1232	50	U	50	23	ug/Kg		06/13/18 10:32	06/14/18 10:38	1
Aroclor-1242	50	U	50	19	ug/Kg		06/13/18 10:32	06/14/18 10:38	1
Aroclor-1248	50	U	50	24	ug/Kg		06/13/18 10:32	06/14/18 10:38	1
Aroclor-1254	50	U	50	23	ug/Kg		06/13/18 10:32	06/14/18 10:38	1
Aroclor-1260	50	U	50	22	ug/Kg		06/13/18 10:32	06/14/18 10:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		14 - 128	06/13/18 10:32	06/14/18 10:38	1
DCB Decachlorobiphenyl	77		10 - 132	06/13/18 10:32	06/14/18 10:38	1

Lab Sample ID: LCS 240-331447/24-A

Matrix: Solid

Analysis Batch: 331542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 331447

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	1000	657		ug/Kg		66	47 - 120
Aroclor-1260	1000	784		ug/Kg		78	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	73		14 - 128
DCB Decachlorobiphenyl	78		10 - 132

Lab Sample ID: 240-96374-15 MS

Matrix: Solid

Analysis Batch: 331542

Client Sample ID: S-17322A-052918-SK-015

Prep Type: Total/NA

Prep Batch: 331447

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	54	U	1110	547		ug/Kg	☼	49	31 - 120
Aroclor-1260	54	U	1110	583		ug/Kg	☼	53	21 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	61		14 - 128
DCB Decachlorobiphenyl	52		10 - 132

Lab Sample ID: 240-96374-15 MSD

Matrix: Solid

Analysis Batch: 331542

Client Sample ID: S-17322A-052918-SK-015

Prep Type: Total/NA

Prep Batch: 331447

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor-1016	54	U	1070	704		ug/Kg	☼	66	31 - 120	25	30
Aroclor-1260	54	U	1070	721		ug/Kg	☼	67	21 - 122	21	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	80		14 - 128
DCB Decachlorobiphenyl	65	p	10 - 132

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Lab Sample ID: MRL 240-331542/2

Matrix: Solid

Analysis Batch: 331542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	0.0500	0.0513		ng/uL		103	
Aroclor-1260	0.0500	0.0494		ng/uL		99	

Surrogate	MRL %Recovery	MRL Qualifier	Limits
Tetrachloro-m-xylene	99		14 - 128
DCB Decachlorobiphenyl	102		10 - 132

Method: Moisture - Percent Moisture

Lab Sample ID: 240-96374-8 DU

Matrix: Solid

Analysis Batch: 330128

Client Sample ID: S-17322A-052918-SK-008

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	89.6		89.3		%		0.4	20
Percent Moisture	10.4		10.7		%		3	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (14-128)	DCBP2 (10-132)
240-96374-1	S-17322A-052918-SK-001	66	85 p
240-96374-2	S-17322A-052918-SK-002	83	107 p
240-96374-3	S-17322A-052918-SK-003	68	94 p
240-96374-4	S-17322A-052918-SK-004	62	72 p
240-96374-5	S-17322A-052918-SK-005	72	104 p
240-96374-6	S-17322A-052918-SK-006	61	89 p

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (14-128)	DCBP1 (10-132)
240-96374-7	S-17322A-052918-SK-007	58	57 p
240-96374-8	S-17322A-052918-SK-008	94	73 p
240-96374-9	S-17322A-052918-SK-009	63	69 p
240-96374-10	S-17322A-052918-SK-010	112	79 p
240-96374-11	S-17322A-052918-SK-011	55	64 p
240-96374-12	S-17322A-052918-SK-012	96	106 p
240-96374-14	S-17322A-052918-SK-014	83	81 p
240-96374-15	S-17322A-052918-SK-015	66	58
240-96374-15 MS	S-17322A-052918-SK-015	61	52
240-96374-15 MSD	S-17322A-052918-SK-015	80	65 p
LCS 240-331447/24-A	Lab Control Sample	73	78
MB 240-331447/23-A	Method Blank	68	77
MRL 240-331542/2	Lab Control Sample	99	102

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Client Sample ID: S-17322A-052918-SK-001

Date Collected: 05/29/18 08:15

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	330128	06/05/18 13:14	BWL	TAL CAN

Client Sample ID: S-17322A-052918-SK-001

Date Collected: 05/29/18 08:15

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-1

Matrix: Solid

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			331447	06/13/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	331545	06/14/18 11:34	LSH	TAL CAN

Client Sample ID: S-17322A-052918-SK-002

Date Collected: 05/29/18 08:20

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	330128	06/05/18 13:14	BWL	TAL CAN

Client Sample ID: S-17322A-052918-SK-002

Date Collected: 05/29/18 08:20

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-2

Matrix: Solid

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			331447	06/13/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	331545	06/14/18 11:52	LSH	TAL CAN

Client Sample ID: S-17322A-052918-SK-003

Date Collected: 05/29/18 08:25

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	330128	06/05/18 13:14	BWL	TAL CAN

Client Sample ID: S-17322A-052918-SK-003

Date Collected: 05/29/18 08:25

Date Received: 05/31/18 10:30

Lab Sample ID: 240-96374-3

Matrix: Solid

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			331447	06/13/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	331545	06/14/18 12:09	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Client Sample ID: S-17322A-052918-SK-004

Lab Sample ID: 240-96374-4

Date Collected: 05/29/18 08:30

Matrix: Solid

Date Received: 05/31/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	330128	06/05/18 13:14	BWL	TAL CAN

Client Sample ID: S-17322A-052918-SK-004

Lab Sample ID: 240-96374-4

Date Collected: 05/29/18 08:30

Matrix: Solid

Date Received: 05/31/18 10:30

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			331447	06/13/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	331545	06/14/18 12:27	LSH	TAL CAN

Client Sample ID: S-17322A-052918-SK-005

Lab Sample ID: 240-96374-5

Date Collected: 05/29/18 08:35

Matrix: Solid

Date Received: 05/31/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	330128	06/05/18 13:14	BWL	TAL CAN

Client Sample ID: S-17322A-052918-SK-005

Lab Sample ID: 240-96374-5

Date Collected: 05/29/18 08:35

Matrix: Solid

Date Received: 05/31/18 10:30

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			331447	06/13/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	331545	06/14/18 12:44	LSH	TAL CAN

Client Sample ID: S-17322A-052918-SK-006

Lab Sample ID: 240-96374-6

Date Collected: 05/29/18 08:40

Matrix: Solid

Date Received: 05/31/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	330128	06/05/18 13:14	BWL	TAL CAN

Client Sample ID: S-17322A-052918-SK-006

Lab Sample ID: 240-96374-6

Date Collected: 05/29/18 08:40

Matrix: Solid

Date Received: 05/31/18 10:30

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			331447	06/13/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	331545	06/14/18 13:02	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Client Sample ID: S-17322A-052918-SK-007

Lab Sample ID: 240-96374-7

Date Collected: 05/29/18 08:45

Matrix: Solid

Date Received: 05/31/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	330128	06/05/18 13:14	BWL	TAL CAN

Client Sample ID: S-17322A-052918-SK-007

Lab Sample ID: 240-96374-7

Date Collected: 05/29/18 08:45

Matrix: Solid

Date Received: 05/31/18 10:30

Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			331447	06/13/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	331533	06/14/18 11:46	LSH	TAL CAN

Client Sample ID: S-17322A-052918-SK-008

Lab Sample ID: 240-96374-8

Date Collected: 05/29/18 08:50

Matrix: Solid

Date Received: 05/31/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	330128	06/05/18 13:14	BWL	TAL CAN

Client Sample ID: S-17322A-052918-SK-008

Lab Sample ID: 240-96374-8

Date Collected: 05/29/18 08:50

Matrix: Solid

Date Received: 05/31/18 10:30

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			331447	06/13/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		20	331533	06/14/18 12:04	LSH	TAL CAN

Client Sample ID: S-17322A-052918-SK-009

Lab Sample ID: 240-96374-9

Date Collected: 05/29/18 08:55

Matrix: Solid

Date Received: 05/31/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	330128	06/05/18 13:14	BWL	TAL CAN

Client Sample ID: S-17322A-052918-SK-009

Lab Sample ID: 240-96374-9

Date Collected: 05/29/18 08:55

Matrix: Solid

Date Received: 05/31/18 10:30

Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			331447	06/13/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	331533	06/14/18 12:21	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Client Sample ID: S-17322A-052918-SK-010

Lab Sample ID: 240-96374-10

Date Collected: 05/29/18 09:00

Matrix: Solid

Date Received: 05/31/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	330128	06/05/18 13:14	BWL	TAL CAN

Client Sample ID: S-17322A-052918-SK-010

Lab Sample ID: 240-96374-10

Date Collected: 05/29/18 09:00

Matrix: Solid

Date Received: 05/31/18 10:30

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			331447	06/13/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		10	331533	06/14/18 12:39	LSH	TAL CAN

Client Sample ID: S-17322A-052918-SK-011

Lab Sample ID: 240-96374-11

Date Collected: 05/29/18 09:05

Matrix: Solid

Date Received: 05/31/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	330128	06/05/18 13:14	BWL	TAL CAN

Client Sample ID: S-17322A-052918-SK-011

Lab Sample ID: 240-96374-11

Date Collected: 05/29/18 09:05

Matrix: Solid

Date Received: 05/31/18 10:30

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			331447	06/13/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	331533	06/14/18 12:56	LSH	TAL CAN

Client Sample ID: S-17322A-052918-SK-012

Lab Sample ID: 240-96374-12

Date Collected: 05/29/18 09:10

Matrix: Solid

Date Received: 05/31/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	330128	06/05/18 13:14	BWL	TAL CAN

Client Sample ID: S-17322A-052918-SK-012

Lab Sample ID: 240-96374-12

Date Collected: 05/29/18 09:10

Matrix: Solid

Date Received: 05/31/18 10:30

Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			331447	06/13/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	331533	06/14/18 13:13	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Client Sample ID: S-17322A-052918-SK-014

Lab Sample ID: 240-96374-14

Date Collected: 05/29/18 09:20

Matrix: Solid

Date Received: 05/31/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	330128	06/05/18 13:14	BWL	TAL CAN

Client Sample ID: S-17322A-052918-SK-014

Lab Sample ID: 240-96374-14

Date Collected: 05/29/18 09:20

Matrix: Solid

Date Received: 05/31/18 10:30

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			331447	06/13/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	331533	06/14/18 13:31	LSH	TAL CAN

Client Sample ID: S-17322A-052918-SK-015

Lab Sample ID: 240-96374-15

Date Collected: 05/29/18 09:25

Matrix: Solid

Date Received: 05/31/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	330128	06/05/18 13:14	BWL	TAL CAN

Client Sample ID: S-17322A-052918-SK-015

Lab Sample ID: 240-96374-15

Date Collected: 05/29/18 09:25

Matrix: Solid

Date Received: 05/31/18 10:30

Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			331447	06/13/18 10:32	DVT	TAL CAN
Total/NA	Analysis	8082A		1	331542	06/14/18 11:17	LSH	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 17322A-T06, PCC Validation

TestAmerica Job ID: 240-96374-1

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-19
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-18 *
Illinois	NELAP	5	200004	07-31-18 *
Kansas	NELAP	7	E-10336	01-31-19
Kentucky (UST)	State Program	4	58	02-23-19
Kentucky (WW)	State Program	4	98016	12-31-18
Minnesota	NELAP	5	039-999-348	12-31-18
Minnesota (Petrofund)	State Program	1	3506	07-31-18 *
Nevada	State Program	9	OH-000482008A	07-31-18 *
New Jersey	NELAP	2	OH001	06-30-18 *
New York	NELAP	2	10975	03-31-19
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-19
Pennsylvania	NELAP	3	68-00340	08-31-18 *
Texas	NELAP	6	T104704517-17-9	08-31-18 *
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18 *
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

MICHIGAN
190

Chain of Custody Record

264946

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

T.A.# 24020174

28/C29

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: M. C. Caram		Site Contact: S. Kippner		COC No: 1 of 2 COCs	
Company Name: GHD		Tel/Fax: (248) 390-5748		Date: 5-30-18		Carrier: FedEx	
Address: 26350 Haggerty Rd.		Analysis Turnaround Time		For Lab Use Only:		Sampler: S. Kippner	
City/State/Zip: Farmington Hills, M.I.		☐ CALENDAR DAYS ☒ WORKING DAYS		Walk-in Client:		Lab Sampling:	
Phone: 248 893-3400		TAT if different from Below		Job / SDG No.:			
Fax: 248 893-3400		☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day					
Project Name: PCC Validation		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
Site: Pontiac, M.I.		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
PO # 550W 17322-006-T06Y18		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
S-17322A-052918-SK-001		5-29-18		8:15		G Soil	
002		8:20		8:25		8:30	
003		8:35		8:40		8:45	
004		8:50		8:55		9:00	
005		9:05		9:10			
006							
007							
008							
009							
010							
011							
012							
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other							
Possible Hazard Identification:							
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.							
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown							
Special Instructions/QC Requirements & Comments:							
Custody Seals Intact: ☐ Yes ☐ No							
Relinquished by:		Company: GHD		Date/Time: 5/30/18		Date/Time: 5/31/18	
Relinquished by:		Company:		Date/Time:		Date/Time: 1030	
Relinquished by:		Company:		Date/Time:		Date/Time:	



[illegible]

TestAmerica Canton Sample Receipt Form/Narrative Login # : 96374

Canton Facility

Client GAD Site Name Cooler unpacked by: POP

Cooler Received on 5-31-18 Opened on 5-31-18

FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # TA Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF +0.1 °C) Observed Cooler Temp. 2.8 °C Corrected Cooler Temp. 2.9 °C

IR GUN #36 (CF +0.3 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

IR GUN # 627 (CF -1.3 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes (X) No

-Were the seals on the outside of the cooler(s) signed & dated? Yes (X) No NA

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (X) No NA

-Were tamper/custody seals intact and uncompromised? Yes (X) No NA

3. Shippers' packing slip attached to the cooler(s)? Yes (X) No

4. Did custody papers accompany the sample(s)? Yes (X) No

5. Were the custody papers relinquished & signed in the appropriate place? Yes (X) No

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes (X) No

7. Did all bottles arrive in good condition (Unbroken)? Yes (X) No

8. Could all bottle labels be reconciled with the COC? Yes (X) No

9. Were correct bottle(s) used for the test(s) indicated? Yes (X) No

10. Sufficient quantity received to perform indicated analyses? Yes (X) No

11. Are these work share samples? Yes (X) No

If yes, Questions 12-16 have been checked at the originating laboratory.

12. Were all preserved sample(s) at the correct pH upon receipt? Yes (X) No NA pH Strip Lot# HC740840

13. Were VOAs on the COC? Yes (X) No

14. Were air bubbles >6 mm in any VOA vials? (X) Larger than this. Yes (X) No NA

15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes (X) No

16. Was a LL Hg or Me Hg trip blank present? Yes (X) No

Contacted PM Date by via Verbal Voice Mail Other

Concerning

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by: POP

18. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) 013 were received in a broken container.

Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

July 20, 2018

Tom Kinney
GHD
26850 Haggerty Road
Farmington, MI 48331

RE: Project: PCC Validation
Pace Project No.: 4614538

Dear Tom Kinney:

Enclosed are the analytical results for sample(s) received by the laboratory on July 06, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

051710-E201072-028

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Will Cole
will.cole@pacelabs.com
(616)975-4500
Project Manager

Enclosures

cc: James Abston, GHD-Farmington Hills, Michigan
Detroit Chemistry, GHD



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PCC Validation

Pace Project No.: 4614538

Grand Rapids Certification ID's

5560 Corporate Exchange Ct SE, Grand Rapids, MI 49512

Minnesota Department of Health, Certificate #1385941

Arkansas Department of Environmental Quality, Certificate
#18-046-0

Georgia Environmental Protection Division, Stipulation

Illinois Environmental Protection Agency, Certificate

#004325

Michigan Department of Environmental Quality, Laboratory

#0034

New York State Department of Health, Serial #57971 and
57972

North Carolina Division of Water Resources, Certificate
#659

Virginia Department of General Services, Certificate #9780

Wisconsin Department of Natural Resources, Laboratory
#999472650

U.S. Department of Agriculture Permit to Receive Soil,
Permit #P330-17-00278

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PCC Validation

Pace Project No.: 4614538

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4614538001	50-17322A-070518-D5-001	Solid	07/05/18 08:45	07/06/18 08:50
4614538002	50-17322A-070518-D5-002	Solid	07/05/18 08:50	07/06/18 08:50
4614538003	50-17322A-070518-D5-003	Solid	07/05/18 08:55	07/06/18 08:50
4614538004	50-17322A-070518-D5-004	Solid	07/05/18 09:10	07/06/18 08:50
4614538005	50-17322A-070518-D5-005	Solid	07/05/18 09:15	07/06/18 08:50
4614538006	50-17322A-070518-D5-006	Solid	07/05/18 09:20	07/06/18 08:50
4614538007	50-17322A-070518-D5-007	Solid	07/05/18 09:25	07/06/18 08:50
4614538008	50-17322A-070518-D5-008	Solid	07/05/18 09:35	07/06/18 08:50
4614538009	50-17322A-070518-D5-009	Solid	07/05/18 09:40	07/06/18 08:50
4614538010	50-17322A-070518-D5-010	Solid	07/05/18 09:45	07/06/18 08:50
4614538011	50-17322A-070518-D5-011	Solid	07/05/18 09:50	07/06/18 08:50
4614538012	50-17322A-070518-D5-013	Solid	07/05/18 10:30	07/06/18 08:50
4614538013	50-17322A-070518-D5-014	Solid	07/05/18 10:35	07/06/18 08:50
4614538014	50-17322A-070518-D5-015	Solid	07/05/18 10:40	07/06/18 08:50
4614538015	50-17322A-070518-D5-016	Solid	07/05/18 10:45	07/06/18 08:50
4614538016	50-17322A-070518-D5-017	Solid	07/05/18 10:50	07/06/18 08:50
4614538017	50-17322A-070518-D5-018	Solid	07/05/18 10:55	07/06/18 08:50
4614538018	50-17322A-070518-D5-019	Solid	07/05/18 11:00	07/06/18 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PCC Validation
Pace Project No.: 4614538

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4614538001	50-17322A-070518-D5-001	EPA 8082A	MSZ	10
		SM 2540 G-11/3550	NS1	1
4614538002	50-17322A-070518-D5-002	EPA 8082A	MSZ	10
		SM 2540 G-11/3550	NS1	1
4614538003	50-17322A-070518-D5-003	EPA 8082A	MSZ	10
		SM 2540 G-11/3550	NS1	1
4614538004	50-17322A-070518-D5-004	EPA 8082A	MSZ	10
		SM 2540 G-11/3550	NS1	1
4614538005	50-17322A-070518-D5-005	EPA 8082A	MSZ	10
		SM 2540 G-11/3550	NS1	1
4614538006	50-17322A-070518-D5-006	EPA 8082A	MSZ	10
		SM 2540 G-11/3550	NS1	1
4614538007	50-17322A-070518-D5-007	EPA 8082A	MSZ	10
		SM 2540 G-11/3550	NS1	1
4614538008	50-17322A-070518-D5-008	EPA 8082A	MSZ	10
		SM 2540 G-11/3550	NS1	1
4614538009	50-17322A-070518-D5-009	EPA 8082A	MSZ	10
		SM 2540 G-11/3550	NS1	1
4614538010	50-17322A-070518-D5-010	EPA 8082A	MSZ	10
		SM 2540 G-11/3550	NS1	1
4614538011	50-17322A-070518-D5-011	EPA 8082A	MSZ	10
		SM 2540 G-11/3550	NS1	1
4614538012	50-17322A-070518-D5-013	EPA 8082A	MSZ	10
		SM 2540 G-11/3550	NS1	1
4614538013	50-17322A-070518-D5-014	EPA 8082A	MSZ	10
		SM 2540 G-11/3550	NS1	1
4614538014	50-17322A-070518-D5-015	EPA 8082A	MSZ	10
		SM 2540 G-11/3550	NS1	1
4614538015	50-17322A-070518-D5-016	EPA 8082A	MSZ	10
		SM 2540 G-11/3550	NS1	1
4614538016	50-17322A-070518-D5-017	EPA 8082A	MSZ	10
		SM 2540 G-11/3550	NS1	1
4614538017	50-17322A-070518-D5-018	EPA 8082A	MSZ	10
		SM 2540 G-11/3550	NS1	1
4614538018	50-17322A-070518-D5-019	EPA 8082A	MSZ	10
		SM 2540 G-11/3550	NS1	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PCC Validation

Pace Project No.: 4614538

Sample: 50-17322A-070518-D5-001 **Lab ID:** 4614538001 Collected: 07/05/18 08:45 Received: 07/06/18 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.036 U	mg/kg	0.036	0.0038	1	07/09/18 11:33	07/10/18 16:56	12674-11-2	
PCB-1221 (Aroclor 1221)	0.036 U	mg/kg	0.036	0.0095	1	07/09/18 11:33	07/10/18 16:56	11104-28-2	
PCB-1232 (Aroclor 1232)	0.036 U	mg/kg	0.036	0.0059	1	07/09/18 11:33	07/10/18 16:56	11141-16-5	
PCB-1242 (Aroclor 1242)	0.036 U	mg/kg	0.036	0.0046	1	07/09/18 11:33	07/10/18 16:56	53469-21-9	
PCB-1248 (Aroclor 1248)	0.036 U	mg/kg	0.036	0.0045	1	07/09/18 11:33	07/10/18 16:56	12672-29-6	
PCB-1254 (Aroclor 1254)	0.021J	mg/kg	0.036	0.0034	1	07/09/18 11:33	07/10/18 16:56	11097-69-1	
PCB-1260 (Aroclor 1260)	0.0050J	mg/kg	0.036	0.0035	1	07/09/18 11:33	07/10/18 16:56	11096-82-5	
PCB, Total (Aroclor)	0.026J	mg/kg	0.036	0.0095	1	07/09/18 11:33	07/10/18 16:56	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	85	%.	45-135		1	07/09/18 11:33	07/10/18 16:56	2051-24-3	
Tetrachloro-m-xylene (S)	94	%.	56-123		1	07/09/18 11:33	07/10/18 16:56	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	8.6	%	0.10	0.10	1		07/11/18 18:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PCC Validation

Pace Project No.: 4614538

Sample: 50-17322A-070518-D5-002 **Lab ID:** 4614538002 Collected: 07/05/18 08:50 Received: 07/06/18 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.038 U	mg/kg	0.038	0.0040	1	07/09/18 11:33	07/10/18 17:29	12674-11-2	
PCB-1221 (Aroclor 1221)	0.038 U	mg/kg	0.038	0.0099	1	07/09/18 11:33	07/10/18 17:29	11104-28-2	
PCB-1232 (Aroclor 1232)	0.038 U	mg/kg	0.038	0.0062	1	07/09/18 11:33	07/10/18 17:29	11141-16-5	
PCB-1242 (Aroclor 1242)	0.038 U	mg/kg	0.038	0.0048	1	07/09/18 11:33	07/10/18 17:29	53469-21-9	
PCB-1248 (Aroclor 1248)	0.038 U	mg/kg	0.038	0.0047	1	07/09/18 11:33	07/10/18 17:29	12672-29-6	
PCB-1254 (Aroclor 1254)	0.050	mg/kg	0.038	0.0035	1	07/09/18 11:33	07/10/18 17:29	11097-69-1	
PCB-1260 (Aroclor 1260)	0.014J	mg/kg	0.038	0.0036	1	07/09/18 11:33	07/10/18 17:29	11096-82-5	
PCB, Total (Aroclor)	0.063	mg/kg	0.038	0.0099	1	07/09/18 11:33	07/10/18 17:29	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	75	%.	45-135		1	07/09/18 11:33	07/10/18 17:29	2051-24-3	
Tetrachloro-m-xylene (S)	88	%.	56-123		1	07/09/18 11:33	07/10/18 17:29	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	11.3	%	0.10	0.10	1		07/11/18 18:22		

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ANALYTICAL RESULTS

Project: PCC Validation

Pace Project No.: 4614538

Sample: 50-17322A-070518-D5-003 **Lab ID:** 4614538003 Collected: 07/05/18 08:55 Received: 07/06/18 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.042 U	mg/kg	0.042	0.0044	1	07/09/18 11:33	07/10/18 18:02	12674-11-2	
PCB-1221 (Aroclor 1221)	0.042 U	mg/kg	0.042	0.011	1	07/09/18 11:33	07/10/18 18:02	11104-28-2	
PCB-1232 (Aroclor 1232)	0.042 U	mg/kg	0.042	0.0068	1	07/09/18 11:33	07/10/18 18:02	11141-16-5	
PCB-1242 (Aroclor 1242)	0.042 U	mg/kg	0.042	0.0053	1	07/09/18 11:33	07/10/18 18:02	53469-21-9	
PCB-1248 (Aroclor 1248)	0.042 U	mg/kg	0.042	0.0052	1	07/09/18 11:33	07/10/18 18:02	12672-29-6	
PCB-1254 (Aroclor 1254)	0.23	mg/kg	0.042	0.0039	1	07/09/18 11:33	07/10/18 18:02	11097-69-1	
PCB-1260 (Aroclor 1260)	0.042J	mg/kg	0.042	0.0041	1	07/09/18 11:33	07/10/18 18:02	11096-82-5	
PCB, Total (Aroclor)	0.28	mg/kg	0.042	0.011	1	07/09/18 11:33	07/10/18 18:02	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	84	%.	45-135		1	07/09/18 11:33	07/10/18 18:02	2051-24-3	
Tetrachloro-m-xylene (S)	91	%.	56-123		1	07/09/18 11:33	07/10/18 18:02	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	22.2	%	0.10	0.10	1		07/11/18 18:23		

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ANALYTICAL RESULTS

Project: PCC Validation

Pace Project No.: 4614538

Sample: 50-17322A-070518-D5-004 **Lab ID:** 4614538004 Collected: 07/05/18 09:10 Received: 07/06/18 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.037 U	mg/kg	0.037	0.0039	1	07/09/18 11:33	07/10/18 18:36	12674-11-2	
PCB-1221 (Aroclor 1221)	0.037 U	mg/kg	0.037	0.0097	1	07/09/18 11:33	07/10/18 18:36	11104-28-2	
PCB-1232 (Aroclor 1232)	0.037 U	mg/kg	0.037	0.0060	1	07/09/18 11:33	07/10/18 18:36	11141-16-5	
PCB-1242 (Aroclor 1242)	0.037 U	mg/kg	0.037	0.0047	1	07/09/18 11:33	07/10/18 18:36	53469-21-9	
PCB-1248 (Aroclor 1248)	0.037 U	mg/kg	0.037	0.0045	1	07/09/18 11:33	07/10/18 18:36	12672-29-6	
PCB-1254 (Aroclor 1254)	0.034J	mg/kg	0.037	0.0034	1	07/09/18 11:33	07/10/18 18:36	11097-69-1	
PCB-1260 (Aroclor 1260)	0.0087J	mg/kg	0.037	0.0036	1	07/09/18 11:33	07/10/18 18:36	11096-82-5	
PCB, Total (Aroclor)	0.043	mg/kg	0.037	0.0097	1	07/09/18 11:33	07/10/18 18:36	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	77	%.	45-135		1	07/09/18 11:33	07/10/18 18:36	2051-24-3	
Tetrachloro-m-xylene (S)	84	%.	56-123		1	07/09/18 11:33	07/10/18 18:36	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	9.6	%	0.10	0.10	1		07/11/18 18:23		

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ANALYTICAL RESULTS

Project: PCC Validation

Pace Project No.: 4614538

Sample: 50-17322A-070518-D5-005 **Lab ID:** 4614538005 Collected: 07/05/18 09:15 Received: 07/06/18 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.040 U	mg/kg	0.040	0.0042	1	07/09/18 11:33	07/10/18 19:09	12674-11-2	
PCB-1221 (Aroclor 1221)	0.040 U	mg/kg	0.040	0.010	1	07/09/18 11:33	07/10/18 19:09	11104-28-2	
PCB-1232 (Aroclor 1232)	0.040 U	mg/kg	0.040	0.0065	1	07/09/18 11:33	07/10/18 19:09	11141-16-5	
PCB-1242 (Aroclor 1242)	0.040 U	mg/kg	0.040	0.0051	1	07/09/18 11:33	07/10/18 19:09	53469-21-9	
PCB-1248 (Aroclor 1248)	0.040 U	mg/kg	0.040	0.0049	1	07/09/18 11:33	07/10/18 19:09	12672-29-6	
PCB-1254 (Aroclor 1254)	0.30	mg/kg	0.040	0.0037	1	07/09/18 11:33	07/10/18 19:09	11097-69-1	
PCB-1260 (Aroclor 1260)	0.038J	mg/kg	0.040	0.0039	1	07/09/18 11:33	07/10/18 19:09	11096-82-5	
PCB, Total (Aroclor)	0.34	mg/kg	0.040	0.010	1	07/09/18 11:33	07/10/18 19:09	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	89	%.	45-135		1	07/09/18 11:33	07/10/18 19:09	2051-24-3	
Tetrachloro-m-xylene (S)	97	%.	56-123		1	07/09/18 11:33	07/10/18 19:09	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	17.4	%	0.10	0.10	1		07/11/18 18:24		

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ANALYTICAL RESULTS

Project: PCC Validation

Pace Project No.: 4614538

Sample: 50-17322A-070518-D5-006 **Lab ID:** 4614538006 Collected: 07/05/18 09:20 Received: 07/06/18 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.037 U	mg/kg	0.037	0.0039	1	07/09/18 11:33	07/10/18 19:42	12674-11-2	
PCB-1221 (Aroclor 1221)	0.037 U	mg/kg	0.037	0.0098	1	07/09/18 11:33	07/10/18 19:42	11104-28-2	
PCB-1232 (Aroclor 1232)	0.037 U	mg/kg	0.037	0.0061	1	07/09/18 11:33	07/10/18 19:42	11141-16-5	
PCB-1242 (Aroclor 1242)	0.037 U	mg/kg	0.037	0.0047	1	07/09/18 11:33	07/10/18 19:42	53469-21-9	
PCB-1248 (Aroclor 1248)	0.037 U	mg/kg	0.037	0.0046	1	07/09/18 11:33	07/10/18 19:42	12672-29-6	
PCB-1254 (Aroclor 1254)	0.037 U	mg/kg	0.037	0.0035	1	07/09/18 11:33	07/10/18 19:42	11097-69-1	
PCB-1260 (Aroclor 1260)	0.037 U	mg/kg	0.037	0.0036	1	07/09/18 11:33	07/10/18 19:42	11096-82-5	
PCB, Total (Aroclor)	0.037 U	mg/kg	0.037	0.0098	1	07/09/18 11:33	07/10/18 19:42	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	79	%.	45-135		1	07/09/18 11:33	07/10/18 19:42	2051-24-3	
Tetrachloro-m-xylene (S)	67	%.	56-123		1	07/09/18 11:33	07/10/18 19:42	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	12.0	%	0.10	0.10	1		07/11/18 18:25		

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ANALYTICAL RESULTS

Project: PCC Validation

Pace Project No.: 4614538

Sample: 50-17322A-070518-D5-007 **Lab ID:** 4614538007 Collected: 07/05/18 09:25 Received: 07/06/18 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.037 U	mg/kg	0.037	0.0039	1	07/09/18 11:33	07/10/18 20:15	12674-11-2	
PCB-1221 (Aroclor 1221)	0.037 U	mg/kg	0.037	0.0098	1	07/09/18 11:33	07/10/18 20:15	11104-28-2	
PCB-1232 (Aroclor 1232)	0.037 U	mg/kg	0.037	0.0061	1	07/09/18 11:33	07/10/18 20:15	11141-16-5	
PCB-1242 (Aroclor 1242)	0.037 U	mg/kg	0.037	0.0047	1	07/09/18 11:33	07/10/18 20:15	53469-21-9	
PCB-1248 (Aroclor 1248)	0.037 U	mg/kg	0.037	0.0046	1	07/09/18 11:33	07/10/18 20:15	12672-29-6	
PCB-1254 (Aroclor 1254)	0.037 U	mg/kg	0.037	0.0035	1	07/09/18 11:33	07/10/18 20:15	11097-69-1	
PCB-1260 (Aroclor 1260)	0.037 U	mg/kg	0.037	0.0036	1	07/09/18 11:33	07/10/18 20:15	11096-82-5	
PCB, Total (Aroclor)	0.037 U	mg/kg	0.037	0.0098	1	07/09/18 11:33	07/10/18 20:15	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	88	%.	45-135		1	07/09/18 11:33	07/10/18 20:15	2051-24-3	
Tetrachloro-m-xylene (S)	88	%.	56-123		1	07/09/18 11:33	07/10/18 20:15	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	12.7	%	0.10	0.10	1		07/11/18 18:25		

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ANALYTICAL RESULTS

Project: PCC Validation

Pace Project No.: 4614538

Sample: 50-17322A-070518-D5-008 **Lab ID:** 4614538008 Collected: 07/05/18 09:35 Received: 07/06/18 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.035 U	mg/kg	0.035	0.0037	1	07/09/18 11:33	07/10/18 20:48	12674-11-2	
PCB-1221 (Aroclor 1221)	0.035 U	mg/kg	0.035	0.0091	1	07/09/18 11:33	07/10/18 20:48	11104-28-2	
PCB-1232 (Aroclor 1232)	0.035 U	mg/kg	0.035	0.0057	1	07/09/18 11:33	07/10/18 20:48	11141-16-5	
PCB-1242 (Aroclor 1242)	0.035 U	mg/kg	0.035	0.0044	1	07/09/18 11:33	07/10/18 20:48	53469-21-9	
PCB-1248 (Aroclor 1248)	0.035 U	mg/kg	0.035	0.0043	1	07/09/18 11:33	07/10/18 20:48	12672-29-6	
PCB-1254 (Aroclor 1254)	0.074	mg/kg	0.035	0.0033	1	07/09/18 11:33	07/10/18 20:48	11097-69-1	
PCB-1260 (Aroclor 1260)	0.018J	mg/kg	0.035	0.0034	1	07/09/18 11:33	07/10/18 20:48	11096-82-5	
PCB, Total (Aroclor)	0.092	mg/kg	0.035	0.0091	1	07/09/18 11:33	07/10/18 20:48	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	69	%.	45-135		1	07/09/18 11:33	07/10/18 20:48	2051-24-3	
Tetrachloro-m-xylene (S)	88	%.	56-123		1	07/09/18 11:33	07/10/18 20:48	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	6.6	%	0.10	0.10	1		07/11/18 18:26		

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ANALYTICAL RESULTS

Project: PCC Validation

Pace Project No.: 4614538

Sample: 50-17322A-070518-D5-009 Lab ID: 4614538009 Collected: 07/05/18 09:40 Received: 07/06/18 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.039 U	mg/kg	0.039	0.0041	1	07/09/18 11:33	07/10/18 22:28	12674-11-2	
PCB-1221 (Aroclor 1221)	0.039 U	mg/kg	0.039	0.010	1	07/09/18 11:33	07/10/18 22:28	11104-28-2	
PCB-1232 (Aroclor 1232)	0.039 U	mg/kg	0.039	0.0064	1	07/09/18 11:33	07/10/18 22:28	11141-16-5	
PCB-1242 (Aroclor 1242)	0.039 U	mg/kg	0.039	0.0050	1	07/09/18 11:33	07/10/18 22:28	53469-21-9	
PCB-1248 (Aroclor 1248)	0.039 U	mg/kg	0.039	0.0049	1	07/09/18 11:33	07/10/18 22:28	12672-29-6	
PCB-1254 (Aroclor 1254)	0.022J	mg/kg	0.039	0.0037	1	07/09/18 11:33	07/10/18 22:28	11097-69-1	
PCB-1260 (Aroclor 1260)	0.0051J	mg/kg	0.039	0.0038	1	07/09/18 11:33	07/10/18 22:28	11096-82-5	
PCB, Total (Aroclor)	0.027J	mg/kg	0.039	0.010	1	07/09/18 11:33	07/10/18 22:28	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	62	%.	45-135		1	07/09/18 11:33	07/10/18 22:28	2051-24-3	
Tetrachloro-m-xylene (S)	47	%.	56-123		1	07/09/18 11:33	07/10/18 22:28	877-09-8	S5
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	16.2	%	0.10	0.10	1		07/11/18 18:27		

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ANALYTICAL RESULTS

Project: PCC Validation

Pace Project No.: 4614538

Sample: 50-17322A-070518-D5-010 **Lab ID:** 4614538010 Collected: 07/05/18 09:45 Received: 07/06/18 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.39 U	mg/kg	0.39	0.041	10	07/09/18 11:33	07/11/18 14:06	12674-11-2	
PCB-1221 (Aroclor 1221)	0.39 U	mg/kg	0.39	0.10	10	07/09/18 11:33	07/11/18 14:06	11104-28-2	
PCB-1232 (Aroclor 1232)	0.39 U	mg/kg	0.39	0.063	10	07/09/18 11:33	07/11/18 14:06	11141-16-5	
PCB-1242 (Aroclor 1242)	0.39 U	mg/kg	0.39	0.049	10	07/09/18 11:33	07/11/18 14:06	53469-21-9	
PCB-1248 (Aroclor 1248)	0.39 U	mg/kg	0.39	0.048	10	07/09/18 11:33	07/11/18 14:06	12672-29-6	
PCB-1254 (Aroclor 1254)	0.71	mg/kg	0.39	0.036	10	07/09/18 11:33	07/11/18 14:06	11097-69-1	
PCB-1260 (Aroclor 1260)	2.3	mg/kg	0.39	0.038	10	07/09/18 11:33	07/11/18 14:06	11096-82-5	
PCB, Total (Aroclor)	3.1	mg/kg	0.39	0.10	10	07/09/18 11:33	07/11/18 14:06	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	108	%.	45-135		10	07/09/18 11:33	07/11/18 14:06	2051-24-3	
Tetrachloro-m-xylene (S)	94	%.	56-123		10	07/09/18 11:33	07/11/18 14:06	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	14.4	%	0.10	0.10	1		07/11/18 18:29		

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ANALYTICAL RESULTS

Project: PCC Validation

Pace Project No.: 4614538

Sample: 50-17322A-070518-D5-011 Lab ID: 4614538011 Collected: 07/05/18 09:50 Received: 07/06/18 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.036 U	mg/kg	0.036	0.0038	1	07/09/18 11:33	07/10/18 23:34	12674-11-2	
PCB-1221 (Aroclor 1221)	0.036 U	mg/kg	0.036	0.0095	1	07/09/18 11:33	07/10/18 23:34	11104-28-2	
PCB-1232 (Aroclor 1232)	0.036 U	mg/kg	0.036	0.0059	1	07/09/18 11:33	07/10/18 23:34	11141-16-5	
PCB-1242 (Aroclor 1242)	0.036 U	mg/kg	0.036	0.0046	1	07/09/18 11:33	07/10/18 23:34	53469-21-9	
PCB-1248 (Aroclor 1248)	0.036 U	mg/kg	0.036	0.0045	1	07/09/18 11:33	07/10/18 23:34	12672-29-6	
PCB-1254 (Aroclor 1254)	0.022J	mg/kg	0.036	0.0034	1	07/09/18 11:33	07/10/18 23:34	11097-69-1	
PCB-1260 (Aroclor 1260)	0.0076J	mg/kg	0.036	0.0035	1	07/09/18 11:33	07/10/18 23:34	11096-82-5	
PCB, Total (Aroclor)	0.030J	mg/kg	0.036	0.0095	1	07/09/18 11:33	07/10/18 23:34	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	88	%.	45-135		1	07/09/18 11:33	07/10/18 23:34	2051-24-3	
Tetrachloro-m-xylene (S)	100	%.	56-123		1	07/09/18 11:33	07/10/18 23:34	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	9.8	%	0.10	0.10	1		07/11/18 18:29		

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ANALYTICAL RESULTS

Project: PCC Validation

Pace Project No.: 4614538

Sample: 50-17322A-070518-D5-013 **Lab ID: 4614538012** Collected: 07/05/18 10:30 Received: 07/06/18 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.072 U	mg/kg	0.072	0.0076	2	07/09/18 11:33	07/11/18 14:39	12674-11-2	
PCB-1221 (Aroclor 1221)	0.072 U	mg/kg	0.072	0.019	2	07/09/18 11:33	07/11/18 14:39	11104-28-2	
PCB-1232 (Aroclor 1232)	0.072 U	mg/kg	0.072	0.012	2	07/09/18 11:33	07/11/18 14:39	11141-16-5	
PCB-1242 (Aroclor 1242)	0.072 U	mg/kg	0.072	0.0091	2	07/09/18 11:33	07/11/18 14:39	53469-21-9	
PCB-1248 (Aroclor 1248)	0.072 U	mg/kg	0.072	0.0089	2	07/09/18 11:33	07/11/18 14:39	12672-29-6	
PCB-1254 (Aroclor 1254)	0.49	mg/kg	0.072	0.0067	2	07/09/18 11:33	07/11/18 14:39	11097-69-1	
PCB-1260 (Aroclor 1260)	0.052J	mg/kg	0.072	0.0070	2	07/09/18 11:33	07/11/18 14:39	11096-82-5	
PCB, Total (Aroclor)	0.54	mg/kg	0.072	0.019	2	07/09/18 11:33	07/11/18 14:39	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	85	%.	45-135		2	07/09/18 11:33	07/11/18 14:39	2051-24-3	
Tetrachloro-m-xylene (S)	92	%.	56-123		2	07/09/18 11:33	07/11/18 14:39	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	7.9	%	0.10	0.10	1		07/11/18 18:30		

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ANALYTICAL RESULTS

Project: PCC Validation

Pace Project No.: 4614538

Sample: 50-17322A-070518-D5-014 **Lab ID:** 4614538013 Collected: 07/05/18 10:35 Received: 07/06/18 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.072 U	mg/kg	0.072	0.0077	2	07/09/18 11:33	07/11/18 15:13	12674-11-2	
PCB-1221 (Aroclor 1221)	0.072 U	mg/kg	0.072	0.019	2	07/09/18 11:33	07/11/18 15:13	11104-28-2	
PCB-1232 (Aroclor 1232)	0.072 U	mg/kg	0.072	0.012	2	07/09/18 11:33	07/11/18 15:13	11141-16-5	
PCB-1242 (Aroclor 1242)	0.072 U	mg/kg	0.072	0.0092	2	07/09/18 11:33	07/11/18 15:13	53469-21-9	
PCB-1248 (Aroclor 1248)	0.072 U	mg/kg	0.072	0.0090	2	07/09/18 11:33	07/11/18 15:13	12672-29-6	
PCB-1254 (Aroclor 1254)	0.50	mg/kg	0.072	0.0068	2	07/09/18 11:33	07/11/18 15:13	11097-69-1	
PCB-1260 (Aroclor 1260)	0.057J	mg/kg	0.072	0.0070	2	07/09/18 11:33	07/11/18 15:13	11096-82-5	R1
PCB, Total (Aroclor)	0.55	mg/kg	0.072	0.019	2	07/09/18 11:33	07/11/18 15:13	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	100	%.	45-135		2	07/09/18 11:33	07/11/18 15:13	2051-24-3	
Tetrachloro-m-xylene (S)	99	%.	56-123		2	07/09/18 11:33	07/11/18 15:13	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	8.3	%	0.10	0.10	1		07/11/18 18:31		

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ANALYTICAL RESULTS

Project: PCC Validation

Pace Project No.: 4614538

Sample: 50-17322A-070518-D5-015 **Lab ID:** 4614538014 Collected: 07/05/18 10:40 Received: 07/06/18 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.046 U	mg/kg	0.046	0.0048	1	07/09/18 11:33	07/11/18 01:14	12674-11-2	
PCB-1221 (Aroclor 1221)	0.046 U	mg/kg	0.046	0.012	1	07/09/18 11:33	07/11/18 01:14	11104-28-2	
PCB-1232 (Aroclor 1232)	0.046 U	mg/kg	0.046	0.0075	1	07/09/18 11:33	07/11/18 01:14	11141-16-5	
PCB-1242 (Aroclor 1242)	0.046 U	mg/kg	0.046	0.0058	1	07/09/18 11:33	07/11/18 01:14	53469-21-9	
PCB-1248 (Aroclor 1248)	0.046 U	mg/kg	0.046	0.0057	1	07/09/18 11:33	07/11/18 01:14	12672-29-6	
PCB-1254 (Aroclor 1254)	0.018J	mg/kg	0.046	0.0043	1	07/09/18 11:33	07/11/18 01:14	11097-69-1	
PCB-1260 (Aroclor 1260)	0.046 U	mg/kg	0.046	0.0044	1	07/09/18 11:33	07/11/18 01:14	11096-82-5	
PCB, Total (Aroclor)	0.018J	mg/kg	0.046	0.012	1	07/09/18 11:33	07/11/18 01:14	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	76	%.	45-135		1	07/09/18 11:33	07/11/18 01:14	2051-24-3	
Tetrachloro-m-xylene (S)	84	%.	56-123		1	07/09/18 11:33	07/11/18 01:14	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	28.9	%	0.10	0.10	1		07/11/18 18:32		

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ANALYTICAL RESULTS

Project: PCC Validation

Pace Project No.: 4614538

Sample: 50-17322A-070518-D5-016 **Lab ID:** 4614538015 **Collected:** 07/05/18 10:45 **Received:** 07/06/18 08:50 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.036 U	mg/kg	0.036	0.0038	1	07/09/18 11:33	07/11/18 01:47	12674-11-2	
PCB-1221 (Aroclor 1221)	0.036 U	mg/kg	0.036	0.0094	1	07/09/18 11:33	07/11/18 01:47	11104-28-2	
PCB-1232 (Aroclor 1232)	0.036 U	mg/kg	0.036	0.0058	1	07/09/18 11:33	07/11/18 01:47	11141-16-5	
PCB-1242 (Aroclor 1242)	0.036 U	mg/kg	0.036	0.0045	1	07/09/18 11:33	07/11/18 01:47	53469-21-9	
PCB-1248 (Aroclor 1248)	0.036 U	mg/kg	0.036	0.0044	1	07/09/18 11:33	07/11/18 01:47	12672-29-6	
PCB-1254 (Aroclor 1254)	0.036 U	mg/kg	0.036	0.0033	1	07/09/18 11:33	07/11/18 01:47	11097-69-1	
PCB-1260 (Aroclor 1260)	0.036 U	mg/kg	0.036	0.0035	1	07/09/18 11:33	07/11/18 01:47	11096-82-5	
PCB, Total (Aroclor)	0.036 U	mg/kg	0.036	0.0094	1	07/09/18 11:33	07/11/18 01:47	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	89	%.	45-135		1	07/09/18 11:33	07/11/18 01:47	2051-24-3	
Tetrachloro-m-xylene (S)	99	%.	56-123		1	07/09/18 11:33	07/11/18 01:47	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	6.2	%	0.10	0.10	1		07/11/18 18:34		

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ANALYTICAL RESULTS

Project: PCC Validation

Pace Project No.: 4614538

Sample: 50-17322A-070518-D5-017 Lab ID: 4614538016 Collected: 07/05/18 10:50 Received: 07/06/18 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.040 U	mg/kg	0.040	0.0042	1	07/09/18 11:33	07/11/18 02:20	12674-11-2	
PCB-1221 (Aroclor 1221)	0.040 U	mg/kg	0.040	0.011	1	07/09/18 11:33	07/11/18 02:20	11104-28-2	
PCB-1232 (Aroclor 1232)	0.040 U	mg/kg	0.040	0.0065	1	07/09/18 11:33	07/11/18 02:20	11141-16-5	
PCB-1242 (Aroclor 1242)	0.040 U	mg/kg	0.040	0.0051	1	07/09/18 11:33	07/11/18 02:20	53469-21-9	
PCB-1248 (Aroclor 1248)	0.040 U	mg/kg	0.040	0.0050	1	07/09/18 11:33	07/11/18 02:20	12672-29-6	
PCB-1254 (Aroclor 1254)	0.0073J	mg/kg	0.040	0.0038	1	07/09/18 11:33	07/11/18 02:20	11097-69-1	
PCB-1260 (Aroclor 1260)	0.020J	mg/kg	0.040	0.0039	1	07/09/18 11:33	07/11/18 02:20	11096-82-5	
PCB, Total (Aroclor)	0.027J	mg/kg	0.040	0.011	1	07/09/18 11:33	07/11/18 02:20	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	88	%.	45-135		1	07/09/18 11:33	07/11/18 02:20	2051-24-3	
Tetrachloro-m-xylene (S)	62	%.	56-123		1	07/09/18 11:33	07/11/18 02:20	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	17.2	%	0.10	0.10	1		07/11/18 18:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PCC Validation

Pace Project No.: 4614538

Sample: 50-17322A-070518-D5-018 **Lab ID:** 4614538017 Collected: 07/05/18 10:55 Received: 07/06/18 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.039 U	mg/kg	0.039	0.0041	1	07/09/18 11:33	07/11/18 02:53	12674-11-2	
PCB-1221 (Aroclor 1221)	0.039 U	mg/kg	0.039	0.010	1	07/09/18 11:33	07/11/18 02:53	11104-28-2	
PCB-1232 (Aroclor 1232)	0.039 U	mg/kg	0.039	0.0063	1	07/09/18 11:33	07/11/18 02:53	11141-16-5	
PCB-1242 (Aroclor 1242)	0.039 U	mg/kg	0.039	0.0049	1	07/09/18 11:33	07/11/18 02:53	53469-21-9	
PCB-1248 (Aroclor 1248)	0.039 U	mg/kg	0.039	0.0048	1	07/09/18 11:33	07/11/18 02:53	12672-29-6	
PCB-1254 (Aroclor 1254)	0.020J	mg/kg	0.039	0.0036	1	07/09/18 11:33	07/11/18 02:53	11097-69-1	
PCB-1260 (Aroclor 1260)	0.0041J	mg/kg	0.039	0.0038	1	07/09/18 11:33	07/11/18 02:53	11096-82-5	
PCB, Total (Aroclor)	0.025J	mg/kg	0.039	0.010	1	07/09/18 11:33	07/11/18 02:53	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	78	%.	45-135		1	07/09/18 11:33	07/11/18 02:53	2051-24-3	
Tetrachloro-m-xylene (S)	89	%.	56-123		1	07/09/18 11:33	07/11/18 02:53	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	13.5	%	0.10	0.10	1		07/11/18 18:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PCC Validation

Pace Project No.: 4614538

Sample: 50-17322A-070518-D5-019 Lab ID: 4614538018 Collected: 07/05/18 11:00 Received: 07/06/18 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.038 U	mg/kg	0.038	0.0041	1	07/09/18 11:33	07/11/18 04:33	12674-11-2	
PCB-1221 (Aroclor 1221)	0.038 U	mg/kg	0.038	0.010	1	07/09/18 11:33	07/11/18 04:33	11104-28-2	
PCB-1232 (Aroclor 1232)	0.038 U	mg/kg	0.038	0.0063	1	07/09/18 11:33	07/11/18 04:33	11141-16-5	
PCB-1242 (Aroclor 1242)	0.038 U	mg/kg	0.038	0.0049	1	07/09/18 11:33	07/11/18 04:33	53469-21-9	
PCB-1248 (Aroclor 1248)	0.038 U	mg/kg	0.038	0.0048	1	07/09/18 11:33	07/11/18 04:33	12672-29-6	
PCB-1254 (Aroclor 1254)	0.019J	mg/kg	0.038	0.0036	1	07/09/18 11:33	07/11/18 04:33	11097-69-1	
PCB-1260 (Aroclor 1260)	0.013J	mg/kg	0.038	0.0037	1	07/09/18 11:33	07/11/18 04:33	11096-82-5	
PCB, Total (Aroclor)	0.032J	mg/kg	0.038	0.010	1	07/09/18 11:33	07/11/18 04:33	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	75	%.	45-135		1	07/09/18 11:33	07/11/18 04:33	2051-24-3	
Tetrachloro-m-xylene (S)	94	%.	56-123		1	07/09/18 11:33	07/11/18 04:33	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	13.1	%	0.10	0.10	1		07/11/18 18:36		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PCC Validation
Pace Project No.: 4614538

QC Batch:	27673	Analysis Method:	EPA 8082A
QC Batch Method:	EPA 3545A	Analysis Description:	8082A GCS PCB
Associated Lab Samples:	4614538001, 4614538002, 4614538003, 4614538004, 4614538005, 4614538006, 4614538007, 4614538008, 4614538009, 4614538010, 4614538011, 4614538012, 4614538013, 4614538014, 4614538015, 4614538016, 4614538017, 4614538018		

METHOD BLANK: 110667 Matrix: Solid
Associated Lab Samples: 4614538001, 4614538002, 4614538003, 4614538004, 4614538005, 4614538006, 4614538007, 4614538008, 4614538009, 4614538010, 4614538011, 4614538012, 4614538013, 4614538014, 4614538015, 4614538016, 4614538017, 4614538018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	0.033 U	0.033	0.0035	07/10/18 16:23	
PCB-1221 (Aroclor 1221)	mg/kg	0.033 U	0.033	0.0088	07/10/18 16:23	
PCB-1232 (Aroclor 1232)	mg/kg	0.033 U	0.033	0.0054	07/10/18 16:23	
PCB-1242 (Aroclor 1242)	mg/kg	0.033 U	0.033	0.0042	07/10/18 16:23	
PCB-1248 (Aroclor 1248)	mg/kg	0.033 U	0.033	0.0041	07/10/18 16:23	
PCB-1254 (Aroclor 1254)	mg/kg	0.033 U	0.033	0.0031	07/10/18 16:23	
PCB-1260 (Aroclor 1260)	mg/kg	0.033 U	0.033	0.0032	07/10/18 16:23	
Decachlorobiphenyl (S)	%.	95	45-135		07/10/18 16:23	
Tetrachloro-m-xylene (S)	%.	99	56-123		07/10/18 16:23	

LABORATORY CONTROL SAMPLE: 110668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	.2	0.20	103	68-129	
PCB-1260 (Aroclor 1260)	mg/kg	.2	0.20	102	60-140	
Decachlorobiphenyl (S)	%.			86	45-135	
Tetrachloro-m-xylene (S)	%.			95	56-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 110669 110670

Parameter	Units	4614538013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	mg/kg	0.072 U	.22	.22	0.23	0.25	106	114	49-128	11	30	
PCB-1260 (Aroclor 1260)	mg/kg	0.057J	.22	.22	0.26	0.35	94	134	48-138	31	30	R1
Decachlorobiphenyl (S)	%.						101	99	45-135			
Tetrachloro-m-xylene (S)	%.						99	104	56-123			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PCC Validation

Pace Project No.: 4614538

QC Batch: 27876 Analysis Method: SM 2540 G-11/3550
 QC Batch Method: SM 2540 G-11/3550 Analysis Description: Dry Weight/Percent Moisture
 Associated Lab Samples: 4614538001, 4614538002, 4614538003, 4614538004, 4614538005, 4614538006, 4614538007, 4614538008,
 4614538009, 4614538010, 4614538011, 4614538012, 4614538013, 4614538014, 4614538015, 4614538016,
 4614538017, 4614538018

SAMPLE DUPLICATE: 111369

Parameter	Units	4614538001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.6	9.7	13	20	

SAMPLE DUPLICATE: 111370

Parameter	Units	4614538013 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.3	9.0	8	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: PCC Validation

Pace Project No.: 4614538

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

R1 RPD value was outside control limits.

S5 Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PCC Validation

Pace Project No.: 4614538

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4614538001	50-17322A-070518-D5-001	EPA 3545A	27673	EPA 8082A	27768
4614538002	50-17322A-070518-D5-002	EPA 3545A	27673	EPA 8082A	27768
4614538003	50-17322A-070518-D5-003	EPA 3545A	27673	EPA 8082A	27768
4614538004	50-17322A-070518-D5-004	EPA 3545A	27673	EPA 8082A	27768
4614538005	50-17322A-070518-D5-005	EPA 3545A	27673	EPA 8082A	27768
4614538006	50-17322A-070518-D5-006	EPA 3545A	27673	EPA 8082A	27768
4614538007	50-17322A-070518-D5-007	EPA 3545A	27673	EPA 8082A	27768
4614538008	50-17322A-070518-D5-008	EPA 3545A	27673	EPA 8082A	27768
4614538009	50-17322A-070518-D5-009	EPA 3545A	27673	EPA 8082A	27768
4614538010	50-17322A-070518-D5-010	EPA 3545A	27673	EPA 8082A	27768
4614538011	50-17322A-070518-D5-011	EPA 3545A	27673	EPA 8082A	27768
4614538012	50-17322A-070518-D5-013	EPA 3545A	27673	EPA 8082A	27768
4614538013	50-17322A-070518-D5-014	EPA 3545A	27673	EPA 8082A	27768
4614538014	50-17322A-070518-D5-015	EPA 3545A	27673	EPA 8082A	27768
4614538015	50-17322A-070518-D5-016	EPA 3545A	27673	EPA 8082A	27768
4614538016	50-17322A-070518-D5-017	EPA 3545A	27673	EPA 8082A	27768
4614538017	50-17322A-070518-D5-018	EPA 3545A	27673	EPA 8082A	27768
4614538018	50-17322A-070518-D5-019	EPA 3545A	27673	EPA 8082A	27768
4614538001	50-17322A-070518-D5-001	SM 2540 G-11/3550	27876		
4614538002	50-17322A-070518-D5-002	SM 2540 G-11/3550	27876		
4614538003	50-17322A-070518-D5-003	SM 2540 G-11/3550	27876		
4614538004	50-17322A-070518-D5-004	SM 2540 G-11/3550	27876		
4614538005	50-17322A-070518-D5-005	SM 2540 G-11/3550	27876		
4614538006	50-17322A-070518-D5-006	SM 2540 G-11/3550	27876		
4614538007	50-17322A-070518-D5-007	SM 2540 G-11/3550	27876		
4614538008	50-17322A-070518-D5-008	SM 2540 G-11/3550	27876		
4614538009	50-17322A-070518-D5-009	SM 2540 G-11/3550	27876		
4614538010	50-17322A-070518-D5-010	SM 2540 G-11/3550	27876		
4614538011	50-17322A-070518-D5-011	SM 2540 G-11/3550	27876		
4614538012	50-17322A-070518-D5-013	SM 2540 G-11/3550	27876		
4614538013	50-17322A-070518-D5-014	SM 2540 G-11/3550	27876		
4614538014	50-17322A-070518-D5-015	SM 2540 G-11/3550	27876		
4614538015	50-17322A-070518-D5-016	SM 2540 G-11/3550	27876		
4614538016	50-17322A-070518-D5-017	SM 2540 G-11/3550	27876		
4614538017	50-17322A-070518-D5-018	SM 2540 G-11/3550	27876		
4614538018	50-17322A-070518-D5-019	SM 2540 G-11/3550	27876		

REPORT OF LABORATORY ANALYSIS

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MO#: 4614538



4614538

PT87 L1

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:

Company:	GHID	Report To:	James Abston
Address:	26830 Hesperity Rd	Copy To:	Michael Coram
Phone:	Permutex Hills, MI 48331	Purchase Order No.:	
Project Name:	Michael Coram @ghid.com	Project Number:	PC-16104600
Requested Due Date/AT:	5TD 2-WK	Project Number:	012322A-707

Section B Invoice Information:

Attention:	Accounts Payable
Company Name:	GHID
Address:	See left
Page Quote:	
Reference:	
Price Project Manager:	
Page Profile #:	

Page: 1 of 2

REGULATORY AGENCY

NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location	STATE:	MI

Requested Analysis Filtered (Y/N)

ITEM #	Matrix Codes MATRIX / CODE	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/STAB			DATE	TIME	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other				
1	50-12322A-070518-05-001	SL G		7-5-18	0845		1													
2					0850		1													
3					0855		1													
4					0900		1													
5					0915		1													
6					0930		1													
7					0935		1													
8					0940		1													
9					0945		1													
10					0950		1													
11					0955		1													
12					0950		1													

RECEIVED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Not exist						
GHID	7-5-18	1200	James Abston	7/6	0850	

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Deane Saliba
SIGNATURE of SAMPLER:	[Signature]
DATE Signed (MM/DD/YY):	07/05/18
Temp in °C	
Received on Ice (Y/N)	
Custody Sealed Cooler (Y/N)	
Samples Intact (Y/N)	

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Section A Required Client Information:										Section B Required Project Information:										Section C Invoice Information:										Page: 2 of 2																																									
Company: GHD										Report To: Ted's Ashton										Attention: Accounts Payable																																																			
Address: 26850 Hegerity Rd										Copy To: Michael Larson										Company Name: GHD																																																			
Email To: Michael Larson 48331										Purchase Order No.:										Address: 5001 Sycamore St																																																			
Phone: 248-923-1400										Project Name: PCC - Validation										Reference: 5001 Sycamore St																																																			
Fax: -										Project Number: 017322A-707										Manager: Mike																																																			
Requested Due Date/AT: 6/10 2-4/15																				Requested Analysis Filtered (Y/N)																																																			
Section D Required Client Information										Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT										COLLECTED COMPOSITE START COMPOSITE END/GRAB										PRESERVATIVES Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other										Analysis Test ↓ Analysis Test ↓																															
SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE										MATRIX CODE (see valid codes to left)										SAMPLE TYPE (G=GRAB C=COMP)										# OF CONTAINERS																																									
ITEM #										DATE										TIME										DATE										TIME																															
1 50-17322A-070518-05-013										566										7-5-18										1030										1																															
2										-014										1025										2																																									
3										-015										1040										1																																									
4										-016										1045										1																																									
5										-017										1050										1																																									
6										-018										1055										1																																									
7										-019										1100										1																																									
8																																																																							
9																																																																							
10																																																																							
11																																																																							
12																																																																							
ADDITIONAL COMMENTS										RELINQUISHED BY / AFFILIATION										DATE										TIME										ACCEPTED BY / AFFILIATION										DATE										TIME											
MUNIC / GHD										7-5-18										1200																																																			
SAMPLER NAME AND SIGNATURE										PRINT Name of SAMPLER: Derek Soliba										DATE Signed: 07/05/08																																																			
SIGNATURE of SAMPLER: M. M.																																																																							
Temp in °C										Received on Ice (Y/N)										Custody Sealed Cooler (Y/N)										Samples Intact (Y/N)																																									

SAMPLE RECEIVING / LOG-IN CHECKLIST

Client **GHD**

Receipt Record Page/Line # **1-16**

Work Order # **4614538**
001-019

Recorded by (initials/date) **IB 7/6/18**

☒ Cooler
☐ Box
☐ Other

Qty Received **1**

☐ IR Gun (#202)
☒ Digital Thermometer Used (#54)
☒ IR Gun (#402)

Cooler #	Time	1131
Custody Seals:	☒ None ☐ Present / Intact ☐ Present / Not Intact	
Coolant Type:	☒ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	
Coolant Location:	☒ Dispersed / Top / Middle / Bottom ☐ Temp Blank Present: ☒ Yes ☐ No ☐ If Present, Temperature Blank Location is:	
Observed °C	Correction Factor °C	Actual °C
Temp Blank:		
Sample 1:	9.3	
Sample 2:	10.2	
Sample 3:	11.6	
When above 6 °C take a 3 Sample Average °C: 10.3		
☐ VOC Trip Blank received?		

Cooler #	Time	
Custody Seals:	☐ None ☐ Present / Intact ☐ Present / Not Intact	
Coolant Type:	☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	
Coolant Location:	☐ Dispersed / Top / Middle / Bottom ☐ Temp Blank Present: ☐ Yes ☐ No ☐ If Present, Temperature Blank Location is:	
Observed °C	Correction Factor °C	Actual °C
Temp Blank:		
Sample 1:		
Sample 2:		
Sample 3:		
When above 6 °C take a 3 Sample Average °C:		
☐ VOC Trip Blank received?		

Cooler #	Time	
Custody Seals:	☐ None ☐ Present / Intact ☐ Present / Not Intact	
Coolant Type:	☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	
Coolant Location:	☐ Dispersed / Top / Middle / Bottom ☐ Temp Blank Present: ☐ Yes ☐ No ☐ If Present, Temperature Blank Location is:	
Observed °C	Correction Factor °C	Actual °C
Temp Blank:		
Sample 1:		
Sample 2:		
Sample 3:		
When above 6 °C take a 3 Sample Average °C:		
☐ VOC Trip Blank received?		

Cooler #	Time	
Custody Seals:	☐ None ☐ Present / Intact ☐ Present / Not Intact	
Coolant Type:	☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	
Coolant Location:	☐ Dispersed / Top / Middle / Bottom ☐ Temp Blank Present: ☐ Yes ☐ No ☐ If Present, Temperature Blank Location is:	
Observed °C	Correction Factor °C	Actual °C
Temp Blank:		
Sample 1:		
Sample 2:		
Sample 3:		
When above 6 °C take a 3 Sample Average °C:		
☐ VOC Trip Blank received?		

Paperwork Received

☒ Yes	Chain of Custody record(s)? If No, Initiated By _____
☒ Yes	Received for Lab Signed/Date/Time? _____
☒ Yes	USDA Soil Documents? _____
☒ Yes	Sampling / Field Forms? _____
☐ No	Other _____

COC Information

☒ Yes	Analysis Requested?
☒ Yes	Sample ID matches COC?
☒ Yes	Sample Date and Time matches COC?
☒ Yes	All containers indicated are received?

Check COC for Accuracy

☒ Yes	Broken containers/lids?
☒ Yes	Missing or incomplete labels?
☒ Yes	Illegal information on labels?
☒ Yes	Low volume received?
☒ Yes	Inappropriate or non-Face containers received?
☒ Yes	VOC vials have headspace?
☒ Yes	Extra sample locations?
☒ Yes	Containers not listed on COC?

Sample Condition Summary

☒ Yes	Initial / Date : IB 7/6/18
☒ Yes	Were all samples logged into Epic?
☒ Yes	Were all samples labelled?
☒ Yes	Were samples placed on scan locations?

Notes

☒ Yes	Temperature Blank OR average sample temperature, ≥6 °C?
☒ Yes	If "Yes" was thermal preservation required?
☒ Yes	If "Yes" were ALL samples collected the same day as receipt?
☒ Yes	Completed Sample Preservation Verification Form?
☒ Yes	Samples chemically preserved correctly?
☒ Yes	If "No", add wire tag and fill out Non-Conformance Form?
☒ Yes	Received unpreserved Terracore kit?
☒ Yes	If "Yes" unpreserved vials must be frozen

Work Order Not Logged In with Short Hold / Rush

☐ No	Copies of COC To Lab Areas
-----------------------------	----------------------------

GHD Simplified Scope of Work (SSOW)/Laboratory Services Purchase Order

Project Summary:

Project Name: PCC-Validation
 GHD Project No./Phase/Task: 017322A - T07
 Project Location: Pontiac
 Client Name: RACER
 QAPP Title: Sampling and Analysis Plan and
 Fundamental Quality Assurance Project Plan

Database Summary:

Database Maintained: ☒ Yes ☐ No
 Database Facility Code: GM-E-ValidationCntr
 Note: Is there more than one laboratory
 for this event? (SSOW__ of __) ☐ Yes ☐ No

SSOW Ref. Code
 17322-007-T06Y18

FOR INTERNAL USE ONLY - CODING

Event Summary:

Phase/Study Title: Soil Sampling
 Event Description: Soil Sampling
 Start Date: 7-5-2018
 Sampling Duration: 1day
 Sampling Frequency: one-time

Rush TAT: Standard ☐ NA
 Final Report & EDD TAT: Standard
 Date Bottles Required: Tuesday 7/3/2018
 Bottle Shipping Address: GHD- Farmington Hills office
 26850 Haggerty Rd, Farmington Hills, MI 48331
 Phone Number: 734-260-1589 Attention: Derek Saliba

Contacts:

Client Project Manager:

Name	Address	Phone	Cell	Email
Consulting Firm:				
Project Manager:	GHD			thomas.kinney@ghd.com
Project Coordinator:	Tom Kinney	26850 Haggerty Rd, Farmington Hills, MI 48331		michael.coram@ghd.com
Field Leader:	Mike Coram	26850 Haggerty Rd, Farmington Hills, MI 48331		derek.saliba@ghd.com
Laboratory (Vendor):	Derek Saliba	26850 Haggerty Rd, Farmington Hills, MI 48331		
Lab Project Manager:	Pace Analytical	37727 Professional Service Center, Livonia, MI 48154	248-996-7244	
Chemistry/Data Mgt. Firm:	Will Cole			
Chemist:	GHD			
Database Analyst:	James Abston	26850 Haggerty Rd, Farmington Hills, MI 48331	248-893-3381	james.abston@ghd.com
	Mary Cameron	26850 Haggerty Rd, Farmington Hills, MI 48331	248-893-3424	

Lab Deliverables

EDD Format ☐ GHD EQUIS E2EDD ☐ GHD EQUIS 4-file ☐ Other (Please Specify) _____
 Hardcopy Level Requested ☐ GHD Standard ☒ Expanded ☐ Other (Please Specify) _____
 Additional Reporting Requirements
 Form 1's include: ☒ MDLs ☐ TICS: ☐ Yes ☐ No ☐ Other
 Soil Reporting: ☒ Dry ☐ Wet

Lab Deliverables Distribution

Rush TAT Data (email deliverable only): _____
 Final EDD & Result Summary (PDF): _____
 Final Lab Report ☒ PDF ☐ CD ☐ Hard Copy : _____
 Mary Cameron (chemdel@ghd.com) thomas.kinney@ghd.com michael.coram@ghd.com kailyn.trestail@ghd.com
 chemdel@ghd.com

GHD Data Review Level

☐ Compliance ☒ Reduced Validation ☐ Reg III Innovative ☐ Fat File ☐ Databox ☐ Other (Please specify): _____
☒ Full Validation ☐ 10/90-Full/Innovative ☒ Other (Please Specify) 10% will require exp review

Data Management Deliverables

Data Management Deliverables Distribution

Data Management DV TAT: _____
 Distribution List: _____
 Database Exports - Reporting down to MDL ☐ Yes ☐ No

Comments

*** additional Final Lab Report copy (in *.pdf format) is available on GHD's MyPortal Site in the Project File folder or on Program specific SharePoint site; please contact project Chemist

SSOW Email Distribution List: thomas.kinney@ghd.com; derek.saliba@ghd.com; james.abston@ghd.com; Jennifer.Devonshire@ghd.com

Prepared By: K. Trestail

Date: 6/28/2018

Revision No.:

Revision Date:

September 05, 2018

James Abston
GHD-Farmington Hills, Michigan
26850 Haggerty Road
Farmington, MI 48331

RE: Project: Racer-PCC Validation
Pace Project No.: 4616234

Dear James Abston:

Enclosed are the analytical results for sample(s) received by the laboratory on August 11, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

051710-E201072-028

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Will Cole
will.cole@pacelabs.com
(616)975-4500
Project Manager

Enclosures

cc: Detroit Chemistry, GHD



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Racer-PCC Validation

Pace Project No.: 4616234

Grand Rapids Certification ID's

5560 Corporate Exchange Ct SE, Grand Rapids, MI 49512

Minnesota Department of Health, Certificate #1385941

Arkansas Department of Environmental Quality, Certificate
#18-046-0

Georgia Environmental Protection Division, Stipulation

Illinois Environmental Protection Agency, Certificate

#004325

Michigan Department of Environmental Quality, Laboratory

#0034

New York State Department of Health, Serial #57971 and
57972

North Carolina Division of Water Resources, Certificate
#659

Virginia Department of General Services, Certificate #9780

Wisconsin Department of Natural Resources, Laboratory
#999472650

U.S. Department of Agriculture Permit to Receive Soil,
Permit #P330-17-00278

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Racer-PCC Validation

Pace Project No.: 4616234

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4616234001	SB-17322A-0818018-KT-001	Solid	08/10/18 10:15	08/11/18 09:10
4616234002	SB-17322A-0818018-KT-002	Solid	08/10/18 10:20	08/11/18 09:10
4616234003	SB-17322A-0818018-KT-003	Solid	08/10/18 10:25	08/11/18 09:10
4616234004	SB-17322A-0818018-KT-004	Solid	08/10/18 10:30	08/11/18 09:10
4616234005	SB-17322A-0818018-KT-005	Solid	08/10/18 10:40	08/11/18 09:10
4616234006	SB-17322A-0818018-KT-006	Solid	08/10/18 10:45	08/11/18 09:10
4616234007	SB-17322A-0818018-KT-007	Solid	08/10/18 10:50	08/11/18 09:10

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SAMPLE ANALYTE COUNT

Project: Racer-PCC Validation

Pace Project No.: 4616234

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4616234001	SB-17322A-0818018-KT-001	EPA 8082A	CAC	10
		SM 2540 G-11/3550	NRC	1
4616234002	SB-17322A-0818018-KT-002	EPA 8082A	CAC	10
		SM 2540 G-11/3550	NRC	1
4616234003	SB-17322A-0818018-KT-003	EPA 8082A	CAC	10
		SM 2540 G-11/3550	NRC	1
4616234004	SB-17322A-0818018-KT-004	EPA 8082A	CAC	10
		SM 2540 G-11/3550	NRC	1
4616234005	SB-17322A-0818018-KT-005	EPA 8082A	CAC	10
		SM 2540 G-11/3550	NRC	1
4616234006	SB-17322A-0818018-KT-006	EPA 8082A	CAC	10
		SM 2540 G-11/3550	NRC	1
4616234007	SB-17322A-0818018-KT-007	EPA 8082A	CAC	10
		SM 2540 G-11/3550	NRC	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Racer-PCC Validation

Pace Project No.: 4616234

Sample: SB-17322A-0818018-KT-001 **Lab ID:** 4616234001 **Collected:** 08/10/18 10:15 **Received:** 08/11/18 09:10 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.035 U	mg/kg	0.035	0.0037	1	08/14/18 14:05	08/25/18 00:15	12674-11-2	
PCB-1221 (Aroclor 1221)	0.035 U	mg/kg	0.035	0.0093	1	08/14/18 14:05	08/25/18 00:15	11104-28-2	
PCB-1232 (Aroclor 1232)	0.035 U	mg/kg	0.035	0.0058	1	08/14/18 14:05	08/25/18 00:15	11141-16-5	
PCB-1242 (Aroclor 1242)	0.035 U	mg/kg	0.035	0.0045	1	08/14/18 14:05	08/25/18 00:15	53469-21-9	
PCB-1248 (Aroclor 1248)	0.035 U	mg/kg	0.035	0.0044	1	08/14/18 14:05	08/25/18 00:15	12672-29-6	
PCB-1254 (Aroclor 1254)	0.035 U	mg/kg	0.035	0.0033	1	08/14/18 14:05	08/25/18 00:15	11097-69-1	
PCB-1260 (Aroclor 1260)	0.035 U	mg/kg	0.035	0.0034	1	08/14/18 14:05	08/25/18 00:15	11096-82-5	
PCB, Total (Aroclor)	0.035 U	mg/kg	0.035	0.0093	1	08/14/18 14:05	08/25/18 00:15	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	102	%	45-135		1	08/14/18 14:05	08/25/18 00:15	2051-24-3	
Tetrachloro-m-xylene (S)	98	%	56-123		1	08/14/18 14:05	08/25/18 00:15	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	10.1	%	0.10	0.10	1		08/17/18 16:36		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Racer-PCC Validation

Pace Project No.: 4616234

Sample: SB-17322A-0818018-KT-002 **Lab ID:** 4616234002 **Collected:** 08/10/18 10:20 **Received:** 08/11/18 09:10 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE									
Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.037 U	mg/kg	0.037	0.0040	1	08/14/18 14:05	08/25/18 00:45	12674-11-2	
PCB-1221 (Aroclor 1221)	0.037 U	mg/kg	0.037	0.0099	1	08/14/18 14:05	08/25/18 00:45	11104-28-2	
PCB-1232 (Aroclor 1232)	0.037 U	mg/kg	0.037	0.0061	1	08/14/18 14:05	08/25/18 00:45	11141-16-5	
PCB-1242 (Aroclor 1242)	0.037 U	mg/kg	0.037	0.0048	1	08/14/18 14:05	08/25/18 00:45	53469-21-9	
PCB-1248 (Aroclor 1248)	0.037 U	mg/kg	0.037	0.0047	1	08/14/18 14:05	08/25/18 00:45	12672-29-6	
PCB-1254 (Aroclor 1254)	0.12	mg/kg	0.037	0.0035	1	08/14/18 14:05	08/25/18 00:45	11097-69-1	
PCB-1260 (Aroclor 1260)	0.037 U	mg/kg	0.037	0.0036	1	08/14/18 14:05	08/25/18 00:45	11096-82-5	
PCB, Total (Aroclor)	0.12	mg/kg	0.037	0.0099	1	08/14/18 14:05	08/25/18 00:45	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	96	%	45-135		1	08/14/18 14:05	08/25/18 00:45	2051-24-3	
Tetrachloro-m-xylene (S)	92	%	56-123		1	08/14/18 14:05	08/25/18 00:45	877-09-8	
Percent Moisture									
Analytical Method: SM 2540 G-11/3550									
Percent Moisture	14.3	%	0.10	0.10	1		08/17/18 16:41		

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ANALYTICAL RESULTS

Project: Racer-PCC Validation

Pace Project No.: 4616234

Sample: SB-17322A-0818018-KT-003 **Lab ID:** 4616234003 Collected: 08/10/18 10:25 Received: 08/11/18 09:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.038 U	mg/kg	0.038	0.0040	1	08/14/18 14:05	08/25/18 02:16	12674-11-2	
PCB-1221 (Aroclor 1221)	0.038 U	mg/kg	0.038	0.0099	1	08/14/18 14:05	08/25/18 02:16	11104-28-2	
PCB-1232 (Aroclor 1232)	0.038 U	mg/kg	0.038	0.0062	1	08/14/18 14:05	08/25/18 02:16	11141-16-5	
PCB-1242 (Aroclor 1242)	0.038 U	mg/kg	0.038	0.0048	1	08/14/18 14:05	08/25/18 02:16	53469-21-9	
PCB-1248 (Aroclor 1248)	0.038 U	mg/kg	0.038	0.0047	1	08/14/18 14:05	08/25/18 02:16	12672-29-6	
PCB-1254 (Aroclor 1254)	0.038 U	mg/kg	0.038	0.0035	1	08/14/18 14:05	08/25/18 02:16	11097-69-1	
PCB-1260 (Aroclor 1260)	0.038 U	mg/kg	0.038	0.0036	1	08/14/18 14:05	08/25/18 02:16	11096-82-5	
PCB, Total (Aroclor)	0.038 U	mg/kg	0.038	0.0099	1	08/14/18 14:05	08/25/18 02:16	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	94	%	45-135		1	08/14/18 14:05	08/25/18 02:16	2051-24-3	
Tetrachloro-m-xylene (S)	93	%	56-123		1	08/14/18 14:05	08/25/18 02:16	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	12.5	%	0.10	0.10	1		08/17/18 16:43		

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ANALYTICAL RESULTS

Project: Racer-PCC Validation

Pace Project No.: 4616234

Sample: SB-17322A-0818018-KT-004 **Lab ID:** 4616234004 **Collected:** 08/10/18 10:30 **Received:** 08/11/18 09:10 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE									
Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.037 U	mg/kg	0.037	0.0039	1	08/14/18 14:05	08/25/18 02:46	12674-11-2	
PCB-1221 (Aroclor 1221)	0.037 U	mg/kg	0.037	0.0098	1	08/14/18 14:05	08/25/18 02:46	11104-28-2	
PCB-1232 (Aroclor 1232)	0.037 U	mg/kg	0.037	0.0061	1	08/14/18 14:05	08/25/18 02:46	11141-16-5	
PCB-1242 (Aroclor 1242)	0.037 U	mg/kg	0.037	0.0047	1	08/14/18 14:05	08/25/18 02:46	53469-21-9	
PCB-1248 (Aroclor 1248)	0.037 U	mg/kg	0.037	0.0046	1	08/14/18 14:05	08/25/18 02:46	12672-29-6	
PCB-1254 (Aroclor 1254)	0.037 U	mg/kg	0.037	0.0035	1	08/14/18 14:05	08/25/18 02:46	11097-69-1	
PCB-1260 (Aroclor 1260)	0.037 U	mg/kg	0.037	0.0036	1	08/14/18 14:05	08/25/18 02:46	11096-82-5	
PCB, Total (Aroclor)	0.037 U	mg/kg	0.037	0.0098	1	08/14/18 14:05	08/25/18 02:46	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	84	%	45-135		1	08/14/18 14:05	08/25/18 02:46	2051-24-3	
Tetrachloro-m-xylene (S)	87	%	56-123		1	08/14/18 14:05	08/25/18 02:46	877-09-8	
Percent Moisture									
Analytical Method: SM 2540 G-11/3550									
Percent Moisture	12.2	%	0.10	0.10	1		08/17/18 16:46		

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ANALYTICAL RESULTS

Project: Racer-PCC Validation

Pace Project No.: 4616234

Sample: SB-17322A-0818018-KT-005 **Lab ID:** 4616234005 Collected: 08/10/18 10:40 Received: 08/11/18 09:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE									
Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.069 U	mg/kg	0.069	0.0074	2	08/14/18 14:05	08/27/18 16:59	12674-11-2	
PCB-1221 (Aroclor 1221)	0.069 U	mg/kg	0.069	0.018	2	08/14/18 14:05	08/27/18 16:59	11104-28-2	
PCB-1232 (Aroclor 1232)	0.069 U	mg/kg	0.069	0.011	2	08/14/18 14:05	08/27/18 16:59	11141-16-5	
PCB-1242 (Aroclor 1242)	0.069 U	mg/kg	0.069	0.0088	2	08/14/18 14:05	08/27/18 16:59	53469-21-9	
PCB-1248 (Aroclor 1248)	0.069 U	mg/kg	0.069	0.0086	2	08/14/18 14:05	08/27/18 16:59	12672-29-6	
PCB-1254 (Aroclor 1254)	0.47	mg/kg	0.069	0.0065	2	08/14/18 14:05	08/27/18 16:59	11097-69-1	
PCB-1260 (Aroclor 1260)	0.069 U	mg/kg	0.069	0.0067	2	08/14/18 14:05	08/27/18 16:59	11096-82-5	
PCB, Total (Aroclor)	0.47	mg/kg	0.069	0.018	2	08/14/18 14:05	08/27/18 16:59	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	83	%	45-135		2	08/14/18 14:05	08/27/18 16:59	2051-24-3	
Tetrachloro-m-xylene (S)	84	%	56-123		2	08/14/18 14:05	08/27/18 16:59	877-09-8	
Percent Moisture									
Analytical Method: SM 2540 G-11/3550									
Percent Moisture	6.7	%	0.10	0.10	1		08/17/18 16:48		

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ANALYTICAL RESULTS

Project: Racer-PCC Validation

Pace Project No.: 4616234

Sample: SB-17322A-0818018-KT-006 **Lab ID:** 4616234006 **Collected:** 08/10/18 10:45 **Received:** 08/11/18 09:10 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.036 U	mg/kg	0.036	0.0038	1	08/14/18 14:05	08/25/18 03:46	12674-11-2	
PCB-1221 (Aroclor 1221)	0.036 U	mg/kg	0.036	0.0094	1	08/14/18 14:05	08/25/18 03:46	11104-28-2	
PCB-1232 (Aroclor 1232)	0.036 U	mg/kg	0.036	0.0058	1	08/14/18 14:05	08/25/18 03:46	11141-16-5	
PCB-1242 (Aroclor 1242)	0.036 U	mg/kg	0.036	0.0045	1	08/14/18 14:05	08/25/18 03:46	53469-21-9	
PCB-1248 (Aroclor 1248)	0.036 U	mg/kg	0.036	0.0044	1	08/14/18 14:05	08/25/18 03:46	12672-29-6	
PCB-1254 (Aroclor 1254)	0.036 U	mg/kg	0.036	0.0033	1	08/14/18 14:05	08/25/18 03:46	11097-69-1	
PCB-1260 (Aroclor 1260)	0.036 U	mg/kg	0.036	0.0034	1	08/14/18 14:05	08/25/18 03:46	11096-82-5	
PCB, Total (Aroclor)	0.036 U	mg/kg	0.036	0.0094	1	08/14/18 14:05	08/25/18 03:46	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	94	%	45-135		1	08/14/18 14:05	08/25/18 03:46	2051-24-3	
Tetrachloro-m-xylene (S)	94	%	56-123		1	08/14/18 14:05	08/25/18 03:46	877-09-8	
Percent Moisture Analytical Method: SM 2540 G-11/3550									
Percent Moisture	8.3	%	0.10	0.10	1		08/17/18 16:50		

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ANALYTICAL RESULTS

Project: Racer-PCC Validation

Pace Project No.: 4616234

Sample: SB-17322A-0818018-KT-007 **Lab ID:** 4616234007 **Collected:** 08/10/18 10:50 **Received:** 08/11/18 09:10 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE									
Analytical Method: EPA 8082A Preparation Method: EPA 3545A									
PCB-1016 (Aroclor 1016)	0.037 U	mg/kg	0.037	0.0039	1	08/14/18 14:05	08/25/18 04:16	12674-11-2	
PCB-1221 (Aroclor 1221)	0.037 U	mg/kg	0.037	0.0097	1	08/14/18 14:05	08/25/18 04:16	11104-28-2	
PCB-1232 (Aroclor 1232)	0.037 U	mg/kg	0.037	0.0060	1	08/14/18 14:05	08/25/18 04:16	11141-16-5	
PCB-1242 (Aroclor 1242)	0.037 U	mg/kg	0.037	0.0047	1	08/14/18 14:05	08/25/18 04:16	53469-21-9	
PCB-1248 (Aroclor 1248)	0.037 U	mg/kg	0.037	0.0046	1	08/14/18 14:05	08/25/18 04:16	12672-29-6	
PCB-1254 (Aroclor 1254)	0.037 U	mg/kg	0.037	0.0035	1	08/14/18 14:05	08/25/18 04:16	11097-69-1	
PCB-1260 (Aroclor 1260)	0.037 U	mg/kg	0.037	0.0036	1	08/14/18 14:05	08/25/18 04:16	11096-82-5	
PCB, Total (Aroclor)	0.037 U	mg/kg	0.037	0.0097	1	08/14/18 14:05	08/25/18 04:16	1336-36-3	N2
Surrogates									
Decachlorobiphenyl (S)	94	%	45-135		1	08/14/18 14:05	08/25/18 04:16	2051-24-3	
Tetrachloro-m-xylene (S)	94	%	56-123		1	08/14/18 14:05	08/25/18 04:16	877-09-8	
Percent Moisture									
Analytical Method: SM 2540 G-11/3550									
Percent Moisture	12.4	%	0.10	0.10	1		08/17/18 16:53		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Racer-PCC Validation
Pace Project No.: 4616234

QC Batch: 30665 Analysis Method: EPA 8082A
QC Batch Method: EPA 3545A Analysis Description: 8082A GCS PCB
Associated Lab Samples: 4616234001, 4616234002, 4616234003, 4616234004, 4616234005, 4616234006, 4616234007

METHOD BLANK: 123501 Matrix: Solid
Associated Lab Samples: 4616234001, 4616234002, 4616234003, 4616234004, 4616234005, 4616234006, 4616234007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	0.033 U	0.033	0.0035	08/24/18 23:45	
PCB-1221 (Aroclor 1221)	mg/kg	0.033 U	0.033	0.0087	08/24/18 23:45	
PCB-1232 (Aroclor 1232)	mg/kg	0.033 U	0.033	0.0054	08/24/18 23:45	
PCB-1242 (Aroclor 1242)	mg/kg	0.033 U	0.033	0.0042	08/24/18 23:45	
PCB-1248 (Aroclor 1248)	mg/kg	0.033 U	0.033	0.0041	08/24/18 23:45	
PCB-1254 (Aroclor 1254)	mg/kg	0.033 U	0.033	0.0031	08/24/18 23:45	
PCB-1260 (Aroclor 1260)	mg/kg	0.033 U	0.033	0.0032	08/24/18 23:45	
Decachlorobiphenyl (S)	%.	99	45-135		08/24/18 23:45	
Tetrachloro-m-xylene (S)	%.	96	56-123		08/24/18 23:45	

LABORATORY CONTROL SAMPLE: 123502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	.2	0.19	95	68-129	
PCB-1260 (Aroclor 1260)	mg/kg	.2	0.20	98	60-140	
Decachlorobiphenyl (S)	%.			94	45-135	
Tetrachloro-m-xylene (S)	%.			93	56-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 123503 123504

Parameter	Units	4616234007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	mg/kg	0.037 U	.23	.23	0.23	0.22	101	98	49-128	2	30	
PCB-1260 (Aroclor 1260)	mg/kg	0.037 U	.23	.23	0.23	0.20	101	89	48-138	11	30	
Decachlorobiphenyl (S)	%.						97	78	45-135			
Tetrachloro-m-xylene (S)	%.						96	93	56-123			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Racer-PCC Validation

Pace Project No.: 4616234

QC Batch: 30999 Analysis Method: SM 2540 G-11/3550
QC Batch Method: SM 2540 G-11/3550 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4616234001, 4616234002, 4616234003, 4616234004, 4616234005, 4616234006, 4616234007

SAMPLE DUPLICATE: 124797

Parameter	Units	4616234007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.4	12.2	2	20	

SAMPLE DUPLICATE: 125192

Parameter	Units	4616450001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.8	9.7	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Racer-PCC Validation
Pace Project No.: 4616234

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Racer-PCC Validation

Pace Project No.: 4616234

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4616234001	SB-17322A-0818018-KT-001	EPA 3545A	30665	EPA 8082A	30746
4616234002	SB-17322A-0818018-KT-002	EPA 3545A	30665	EPA 8082A	30746
4616234003	SB-17322A-0818018-KT-003	EPA 3545A	30665	EPA 8082A	30746
4616234004	SB-17322A-0818018-KT-004	EPA 3545A	30665	EPA 8082A	30746
4616234005	SB-17322A-0818018-KT-005	EPA 3545A	30665	EPA 8082A	30746
4616234006	SB-17322A-0818018-KT-006	EPA 3545A	30665	EPA 8082A	30746
4616234007	SB-17322A-0818018-KT-007	EPA 3545A	30665	EPA 8082A	30746
4616234001	SB-17322A-0818018-KT-001	SM 2540 G-11/3550	30999		
4616234002	SB-17322A-0818018-KT-002	SM 2540 G-11/3550	30999		
4616234003	SB-17322A-0818018-KT-003	SM 2540 G-11/3550	30999		
4616234004	SB-17322A-0818018-KT-004	SM 2540 G-11/3550	30999		
4616234005	SB-17322A-0818018-KT-005	SM 2540 G-11/3550	30999		
4616234006	SB-17322A-0818018-KT-006	SM 2540 G-11/3550	30999		
4616234007	SB-17322A-0818018-KT-007	SM 2540 G-11/3550	30999		

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SAMPLE RECEIVING / LOG-IN CHECKLIST

Pace Analytical

Client: 614D	Work Order #: 4616234
Receipt Record Page/Line #: 47-1	

Recorded by (initials/date): PS 8/11/18	☒ Cooler ☐ Box ☐ Other:	Qty Received: 1	☒ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ IR Gun (#402)
--	---	------------------------	---

Cooler #	Time	Cooler #	Time	Cooler #	Time	Cooler #	Time
Blue	0921						
Custody Seals: ☒ None ☐ Present / Intact ☐ Present / Not Intact		Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact		Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact		Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact	
Coolant Type: ☐ Loose Ice ☒ Bagged Ice ☐ Blue Ice ☐ None		Coolant Type: ☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None		Coolant Type: ☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None		Coolant Type: ☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	
Coolant Location: Dispersed / Top / <u>Middle</u> / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom	
Temp Blank Present: ☐ Yes ☒ No If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative		Temp Blank Present: ☐ Yes ☐ No If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative		Temp Blank Present: ☐ Yes ☐ No If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative		Temp Blank Present: ☐ Yes ☐ No If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative	
Observed °C	Correction Factor °C	Actual °C		Observed °C	Correction Factor °C	Actual °C	
Temp Blank:				Temp Blank:			
Sample 1:	1.9		1.9	Sample 1:			
Sample 2:	2.7		2.7	Sample 2:			
Sample 3:	2.5		2.5	Sample 3:			
When above 6 °C take a 3 Sample Average °C:		When above 6 °C take a 3 Sample Average °C:		When above 6 °C take a 3 Sample Average °C:		When above 6 °C take a 3 Sample Average °C:	
☐ VOC Trip Blank received?		☐ VOC Trip Blank received?		☐ VOC Trip Blank received?		☐ VOC Trip Blank received?	

If any shaded areas checked, complete Sample Receiving Non-Conformance

Paperwork Received

Yes	No
☒	☐ Chain of Custody record(s)? If No, Initiated By _____
☒	☐ Received for Lab Signed/Date/Time?
☐	☒ USDA Soil Documents?
☐	☒ Sampling / Field Forms?
☐	☒ Other _____

COC Information

☒ Pace COC ☐ Other _____

COC ID Numbers: _____

Check COC for Accuracy

Yes	No
☒	☐ Analysis Requested?
☒	☐ Sample ID matches COC?
☒	☐ Sample Date and Time matches COC?
☒	☐ All containers indicated are received?

Sample Condition Summary

N/A	Yes	No
☐	☐	☒ Broken containers/lids?
☐	☐	☒ Missing or incomplete labels?
☐	☐	☒ Illegible information on labels?
☐	☐	☒ Low volume received?
☐	☐	☒ Inappropriate or non-Pace containers received?
☐	☐	☒ VOC vials have headspace?
☐	☐	☒ Extra sample locations?
☐	☐	☒ Containers not listed on COC?

Check Sample Preservation

N/A	Yes	No
☒	☐	☒ Temperature Blank OR average sample temperature, ≥6° C?
☒	☐	☐ If "Yes" was thermal preservation required?
☒	☐	☐ If "Yes" were ALL samples collected the same day as receipt?
☒	☐	☐ Completed Sample Preservation Verification Form?
☒	☐	☐ Samples chemically preserved correctly?
☒	☐	If "No", add wire tag and fill out Non-Conformance Form?
☒	☐	Received unpreserved Terracore kit?
		If "Yes" unpreserved vials must be frozen

Work Order Not Logged In with Short Hold / Rush

☐ Copies of COC To Lab Areas

Notes

PS 8/11

Yes	No
☐	☐ Were all samples logged into Epic?
☐	☐ Were all samples labelled?
☐	☐ Were samples placed on scan locations?

Initial / Date :