SUBSURFACE PHASE II ENVIRONMENTAL SITE ASSESSMENT

SIMON PROPERTIES
264 OAK STREET; 23 AND 31 EAST HURON STREET; AND
348, 357, 367, 375, 379, 383 AND 391 ELLICOTT STREET
CITY OF BUFFALO, ERIE COUNTY, NEW YORK

Prepared for:

Douglas Development Corporation
655 New York Avenue, Suite 830
Washington, DC 20001

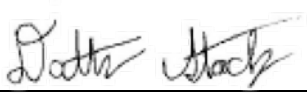
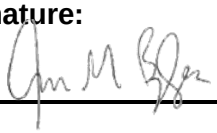
Prepared by:

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC
960 Busti Avenue
Buffalo, New York 14213

And

AMD ENVIRONMENTAL

AMD Environmental Consultants, Inc.
Canalside Commons 72 E. Niagara Street, Suite 100
Tonawanda, NY 14150
716-833-0043

Prepared By: Dalton Stack	**Signature:** 	**Date:** **January 2022**	**Title:** BE3- Environmental Scientist
Reviewed By: Jason M. Brydges, PE	**Signature:** 	**Date:** **January 2022**	**Title:** BE3 - PM

January 2022

TABLE OF CONTENTS

FIGURES/DRAWINGS

TABLES

APPENDICES

1.0 INTRODUCTION

Brydges Engineering in Environment & Energy, DPC (BE3) performed a subsurface Phase II Environmental Site Assessment (ESA) at 264 Oak Street; 23 and 31 East Huron Street; and 348, 357, 367, 375, 379, 383, and 391 Ellicott Street located in the City of Buffalo, Erie County, New York (see **Figure 1**). The properties are currently commercial buildings or asphalt parking lots. The purpose of the project was to obtain information and data for assessing the Recognized Environmental Conditions (RECs) identified in the previous Phase I ESA and to determine if the property is eligible for the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP).

1.1 BACKGROUND

1.1.1 General Site Setting

The properties are currently commercial buildings or asphalt parking lots located in the City of Buffalo less than a half mile southwest of City Hall. The 264 Oak Street property is approximately 0.10-acre and is located east of 383 Ellicott Street. The 23 East Huron Street property is approximately 0.13-acre and is located at the western end of the group of ten properties. 31 East Huron Street property is approximately 0.20-acre and is located immediately east of the 23 East Huron Street property and west of the Slyboots School of Music and Arts. The 348 Ellicott Street property is approximately 0.04-acre and is located directly east of 31 East Huron Street. The 357 Ellicott Street property is approximately 0.08-acre and is located just south of 367 Ellicott Street. The 367 Ellicott Street property is approximately 0.06-acre and is located north of 357 Ellicott Street and south of 375 Ellicott Street. The 375 Ellicott Street property is approximately 0.05-acre and is located north of 367 Ellicott Street and south of 379 Ellicott Street. The 379 Ellicott Street property is approximately 0.17-acre and is located north of 375 Ellicott Street and is south of 383 Ellicott Street. The 383 Ellicott Street property is approximately 0.25-acre and is located north of 379 Ellicott Street, south of 391 Ellicott Street, and directly west of 264 Oak Street. The 391 Ellicott Street property is approximately 0.10-acre and is located at the most northern end of all 10 properties, just north of the 383 Ellicott Street property. A property location map is included as Figure 1 and a property boundary map is included as Figure 2

1.1.2 Physical Setting

Local area topography is generally level. Surface relief in the immediate vicinity of the subject properties is relatively uniform, with overall gentle downward slopes to the south-southwest, towards the Buffalo River and Lake Erie which are less than one mile southwest, and the mouth of the Niagara River about 2 miles west. The elevation ranges from 606 to 640 feet above mean sea level (msl) and the general middle of the property is located at latitude 42º 53’ 18.55” N; Longitude 78º 52’ 14.49” W. The immediate area around the 10 properties is mainly commercial with some residential.

1.1.3 Historical Use

The subject parcels located at 391, 379, 367, 357, 348 Ellicott Street; 264 Oak Street; and 23 East Huron Street are occupied by commercial buildings while the parcels located at 383, 375 Ellicott Street; and 31 East Huron Street are currently vacant former commercial parcels and parking lots. 383 Ellicott Street was historically known as a gas station (Market Service Station)

from 1935 through the 1960s. City records indicate that 383 Ellicott Street had three 1,000 and two 550 gallon UST for gasoline storage on site. The 379 Ellicott Street property was historically known as a gas station (Ellicott Simonizing & Service Station) from 1935 to 1940. City records indicate that 379 Ellicott had one 1,200 and one 1,100 gallon UST for gasoline storage. The 367 Ellicott Street property is currently occupied by a two story building known as Simon Electric Company and currently repairs and sells electrical equipment. The 357 Ellicott Street property is currently a two-story building used for storage of electrical equipment for the Simon Electric Company located directly north. The 348 Ellicott Street property is currently occupied by a three-story vacant building with a basement formerly known as Buffalo Advertising Artists. The 264 Oak Street property is currently occupied by a one-story storage warehouse which contained multiple drums that were empty with small amounts of residual substance in the bottom of them. The 23 East Huron Street property is currently the Burns Building which is a Class C office building that was constructed in 1925. It was home to a fabrics company in 1930 (La France Industries Upholsters) and a photocopy company from 1955-1970 (Wilder Photocopy Co Inc.).

1.1.4 Contaminants of Concern

The history and use of the subject property suggest there was potential contaminants of concern associated with fill materials, Service Stations, and past manufacturing/commercial use including metals and polycyclic aromatic hydrocarbons (PAHs), and petroleum. PAHs are a group of chemicals that are formed during incomplete burning of wood, coal, gas, garbage, or other organic substances and are widely distributed in the environment and particularly in older urban environments where coal, gas, and petroleum were burned for heat and other energy uses. PAH compounds are common constituents of fill material found in urban environments, and are typically associated with both fill material, coal tar, and asphalt-based materials or ash.

1.2 SCOPE

The objective of this environmental assessment was to assess the properties for environmental impacts indicated by historical use at/adjacent to the subject properties and to determine if the property may be eligible for the BCP. This was completed by performing a field assessment of subsurface soil and limited groundwater evaluation to assess the subject properties relative to the potential recognized environmental conditions (RECs) identified in the Phase I ESA from on-site and adjacent concerns.

2.0 FIELD INVESTIGATIONS

The subsurface assessment field work was completed on December 21, 2021. Prior to conducting the Phase II ESA, the utility locate center was notified to mark underground utilities on the properties. TREC Environmental, Inc (TREC). provided the equipment and personnel to advance the borings and install the temporary monitoring wells. Site Photographs are included in **Appendix A** and boring logs are included in **Appendix B**.

2.1 SOIL SAMPLING

A total of 16 soil borings, designated Borings B1 through B16, were advanced at specific locations across the property. Soil borings were field located to assess the subsurface specific to previous property use and to ensure coverage across the parcels. The boring locations are provided on Figures 3 and 4.

The borings were completed using a track mounted Geoprobe® unit which employs direct push technology. Continuous soil sampling was performed using Macro Core soil samplers measuring approximately 5-feet in length and 1½ inches in diameter with acetate liners. Each of the samplers was fitted with a new acetate liner prior to use. Stratification of material observed in each boring are noted on boring logs, which are included in **Appendix B**.

Soil from each soil core was visually described and field screened for volatile organic compounds (VOCs) using a MiniRae 3000+ photoionization detector (PID) with a 10.6 eV Lamp and by visual and olfactory observations. Soil cores from borings were transported to a staging area adjacent to each borehole. The soil core was opened, and the length of the core was examined visually and with the PID. Odors, PID results, and observations were noted on the boring logs. A total of 18 analytical soil samples were collected at approximate depths from fill or native material as follows:

- B1 at 0-2 and 10-12 feet bgs. Total depth of boring was 15 feet bgs;
- B2 at 5-7 feet bgs. Total depth of boring was 15 feet bgs;
- B3 at 0-2 and 10-12 feet bgs. Total depth of boring was 15 feet bgs;
- B4 at 0-2 feet bgs. Total depth of boring was 10 feet bgs;
- B5 at 0-2 feet bgs. Total depth of boring was 15 feet bgs;
- B6 at 0-2 feet bgs. Total depth of boring was 10 feet bgs;
- B7 at 0-2 feet bgs. Total depth of boring was 10 feet bgs;
- B8 at 0-2 feet bgs. Total depth of boring was 10 feet bgs;
- B9 at 0-2 feet bgs. Total depth of boring was 10 feet bgs;
- B10 at 0-2 feet bgs. Total depth of boring was 10 feet bgs;
- B11 at 0-2 feet bgs. Total depth of boring was 10 feet bgs;
- B12 at 0-2 feet bgs. Total depth of boring was 15 feet bgs;
- B13 at 0-2 feet bgs. Total depth of boring was 10 feet bgs;
- B14 at 0-2 feet bgs. Total depth of boring was 10 feet bgs;
- B15 at 0-2 feet bgs. Total depth of boring was 7 feet bgs; and
- B16 at 0-2 feet bgs. Total depth of boring was 7 feet bgs;

PID readings were observed in soil from borings B1 and B2 soil. Soil boring B1 had hydrocarbon odors and PID readings of 470 ppm from 5-10 feet bgs and greater than 500 ppm from 10-15 feet bgs. Soil boring B2 had hydrocarbon odors and elevated PID readings of 10.4 ppm from 5-10 feet bgs and 1.2 ppm from 10-15 feet bgs.

All soil borings were backfilled with the soil from the boring and sealed with an asphalt patch where applicable. The soil samples were submitted to Eurofins which is a NYSDEC approved laboratory for analysis.

2.2 GROUNDWATER SAMPLING

Four temporary groundwater monitoring wells were installed on December 21, 2021. Monitoring wells TMW1 through TMW4 were installed in borings B1, B2, B5, and B12 respectively. These borings were selected to assess migration of potential contaminants of concern from the onsite historical UST, offsite REC locations, and the anticipated groundwater flow direction.

The wells consisted of a 1-inch diameter, schedule PVC casing equipped with a 5-foot, 0.01-inch slot screen and a solid PVC riser pipe extending to the surface. Screens were positioned in the water bearing zone to the bottom of the boring to ensure assessment potential for

contaminates of concern. The wells were sampled using a disposable mini bailer and the wells were allowed to equilibrate for about 1.5 hours prior to sampling. Groundwater sample TMW1 contained a black, oil-like consistency and a strong hydrocarbon odor.

Following sampling, the PVC was removed from the ground and disposed of. The boring was then backfilled with soil cuttings and an asphalt patch was added to match the surrounding surface.

2.3 SUBSURFACE CONDITIONS

The borings indicate that shallow subsurface conditions generally consisted of sandy gravel fill material near the surface below asphalt and stone base. Small amounts of construction and demolition debris (C&D) was noted in these shallow borings. Groundwater was encountered between approximately 9 and 11 feet bgs during drilling. Depth to water (DTW) was measured in the yemporay wells and ranged from 7.42 feet in well TMW2 and 9.30 feet in TMW4. Boring logs are located in **Appendix B**.

3.0 RESULTS

Soil and groundwater samples were analyzed on a standard 10-day turnaround time. The analytical soil results were compared to the NYSDEC Unrestricted, Residential, and Restricted Residential Soil Cleanup Objectives (SCOs) listed in Table 375-6.8(a) and (b) of 6 NYCRR Part 375 (December 2006). The analytical groundwater results were compared to the NYSDEC Technical and Operational Guidance Series (TOGS) Standards or Guidance Values in Table 1 of the Division of Water TOGS (1.1.1) (June 1998). These SCOs and standards are listed in Tables 1 and 2 with the soil and groundwater results, respectively. A copy of the laboratory report is provided in **Appendix C**.

3.1 SOIL

Near surface soil samples were collected and analyzed in 12 of the 16 boreholes. The samples were collected within the top 2 feet. Samples B1S2, B1S3, B2S2, and B3S3 were collected at 5-7, 10-12, 5-7, and 10-12 feet bgs, respectively. All samples were analyzed for NYSDEC Part 375 metals and semi-volatile compounds (SVOCs) other than samples B1S3 and B3S3. Samples B1S2, B1S3, B2S2, and B3S3 were analyzed for VOCs. The analytical laboratory data is provided in **Appendix C**.

Metals

Metals were observed in all soil samples. A summary of metals above NYSDEC SCOs is provided in **Table 1 and Figures 3 and 4**. The following results were above SCOs:

- Arsenic was detected above restricted residential SCOs in B7 at 18.8 ppm and B10 at 25.2 ppm;
- Barium was detected above restricted residential SCOs in B7 at 410 ppm;
- Chromium was elevated above unrestricted SCOs in B10 at 35.8 ppm and residential SCOs in B2 at 81.5 ppm;
- Copper was detected above unrestricted SCOs in B1 at 71.3 ppm and B12 at 58.6 ppm and restricted residential SCOs in B10 at 355 ppm;
- Lead was detected in B4, B5, B6, B11,and B16 above unrestricted use SCOs at 162

ppm, 283 ppm, 158 ppm, 183 ppm, and 237 ppm respectively and restricted residential SCOs in B1, B2, B7, B10, and B12 at 576 ppm, 497 ppm, 932 ppm, 809 ppm, and 601 ppm;
- Manganese was detected above restricted residential SCOs in B2 at 2,120 ppm;
- Mercury was detected above unrestricted SCOs in B2 and B11 at 0.23 ppm and 0.48 ppm and above restricted residential SCOs in B5, B6, B7, and B10 at 0.82 ppm, 0.9 ppm, 7.0 ppm, and 4.8 ppm;
- Nickel was detected above unrestricted SCOs in B10 at 76.5 ppm;
- Selenium was detected above unrestricted SCOs in B7 at 4.4 ppm;
- Silver was detected above unrestricted SCOs in B10 at 18.0 ppm; and
- Zinc was detected above unrestricted SCOs in B2, B6, B7, B8, B10, B11, and B16 at 230 ppm, 157 ppm, 430 ppm, 266 ppm, and 344 ppm.

Semi-Volatile Organic Compounds

Of the twelve near-surface soil samples, seven contained SVOCs, all PAH compounds, above NYSDEC SCOs as follows:

- B3S1-Benzo(b)fluoranthene (1.2 ppm) and Indeno(1,2,3-cd)pyrene (0.64 ppm) was above restricted residential SCOs;
- B6S1-Chrysene (1.1 ppm) was above residential SCOs and Benzo(a)anthracene (1.1 ppm), Benzo(b)fluoranthene (1.1 ppm) and Indeno(1,2,3-cd)pyrene (0.61 ppm) were above restricted residential SCOs;
- B7-Chrysene (1.6 ppm) was above residential SCOs and Benzo(a)anthracene (1.6 ppm), Benzo(a)pyrene (1.4 ppm), Benzo(b)fluoranthene (2 ppm), and Ideno(1,2,3-cd)pyrene (1 ppm) were above restricted residential SCOs;
- B10S1-Benzo(k)fluoranthene (1.3 ppm) and Chrysene (3.1 ppm) were above residential SCOs and Benzo(a)anthracene (3.2 ppm), Benzo(a)pyrene (2.7 ppm), Benzo(b)fluoranthene (3.4 ppm), Dibenz(a,h)anthracene (0.59 ppm), and Ideno(1,2,3-cd)pyrene (1.8 ppm) were above restricted residential SCOs;
- B11S1-Benzo(k)fluoranthene (0.84 ppm) was above unrestricted SCOs, Chrysene (1.6 ppm) was above residential SCOs, and Benzo(a)anthracene (1.7 ppm), Benzo(a)pyrene (1.6 ppm), Benzo(b)fluoranthene (1.9 ppm), Dibenz(a,h)anthracene (0.42 ppm), and Ideno(1,2,3-cd)pyrene (1.3 ppm) were above restricted residential SCOs;
- B14S1-Benzo(a)anthracene (14 ppm), Benzo(a)pyrene (12 ppm), Benzo(b)fluoranthene (16 ppm), Benzo(k)fluoranthene (4.5 ppm), Chrysene (13ppm), Dibenz(a,h)anthracene (2 ppm), and Ideno(1,2,3-cd)pyrene (7.6 ppm) were all above restricted residential SCOs; and
- B16S1- Benzo(k)fluoranthene (3.7 ppm) was above residential SCOs and Benzo(a)anthracene (7.4 ppm), Benzo(a)pyrene (7.1 ppm), Benzo(b)fluoranthene (9 ppm), Chrysene (7.7 ppm), and Ideno(1,2,3-cd)pyrene (5.1 ppm) were above restricted residential SCOs.

Volatile Organic Compounds

Of the four soil samples sampled for VOC, one contained VOCs above NYSDEC SCOs as follows:

- B1S2-Total Xylenes (1.4 ppm) exceeded unrestricted SCOs of 0.26 ppm.

Refer to **Table 1** for the specific results in comparison to the NYSDEC SCOs.

3.2 GROUNDWATER

Four groundwater samples (Samples TMW1, TMW2, TMW3, and TMW4) were collected and submitted to the laboratory. Sample TMW1 and TMW2 were analyzed for VOCs by Method 8260C and SVOCs by EPA Method 8270D. Samples TMW3 and TMW4 were only analyzed for VOCs because they had poor recharge rate and SVOC sample containers could not be filled. The analytical laboratory data is provided in **Appendix C**.

Volatile Organic Compounds

Of the four soil samples, one had elevated VOCs above NYSDEC TOGS 1.1.1 Values as follows:

- TMW1- Total Xylenes (99 [micrograms per liter] ug/L) was above the NYSDEC TOGS Guidance Value.

Semi-Volatile Organic Compounds

Of the four soil samples, one had elevated SVOCs above NYSDEC TOGS 1.1.1 Values as follows:

- TMW1- Naphthalene (29 ug/l) was above the NYSDEC TOGS Guidance Value.

Refer to **Table 2** for the specific results in comparison to the NYSDEC TOGS 1.1.1 Values.

4.0 CONCLUSIONS

The purpose of this assessment was to identify potential environmental impacts at 264 Oak Street; 23 and 31 East Huron Street; and 348, 357, 367, 375, 379, 383, and 391 Ellicott Street located in the City of Buffalo, Erie County, New York. The properties are currently commercial buildings or asphalt parking lots. Historical uses included a gasoline service stations at 383 Ellicott Street (Three 1,000 and two 550 gallon USTs) and 379 Ellicott Street (1,200 and 1,100 gallon USTs).

The laboratory results indicate that there are urban fill conditions existing at the properties to approximately 3 to 5 feet bgs resulting in target analytes (metals and SVOCs, primarily PAHs) above NYSDEC Unrestricted, Residential, or Restricted Residential SCOs. 16 soil borings and 4 groundwater wells were installed across the properties. 18 samples were collected and analyzed. Petroleum impacted soil and groundwater was identified in boring/well B1/TMW1 from 5-15 feet bgs. Impacted soil/groundwater is indicative of a spill per DEC CP-51 and the obligation to report spill to DEC is on the property owner.

5.0 WARRANTS AND LIMITATIONS

This report is based on information from limited soil and groundwater sampling and visual observations of the soils as well as a review of the previous Phase I ESA at the property. This report is intended exclusively for the purpose outlined herein at the site location and project indicated.

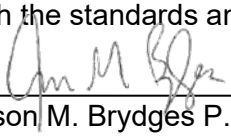
This report is intended for the sole use of the Douglas Development Corporation. The scope of services performed in this assessment may not be appropriate to satisfy the needs of other users and any use or reuse of this document or the findings, conclusions, or recommendations presented, is at the sole risk of the user.

The conclusions set forth in this report are based upon, and limited by, the analytical data and other information available. It should be noted that all surface and subsurface environmental assessments are inherently limited in the sense that conclusions are drawn, and recommendations developed from information obtained from limited data and site evaluation at a specific time. The passage of time may result in a change in environmental circumstances at this site and surrounding properties, or petroleum/hazardous materials beneath the surface may be present but undetectable during this limited subsurface assessment.

Opinions and recommendations presented herein apply to the site conditions existing at the time of the subsurface assessment and those reasonably foreseeable. They cannot necessarily apply to site changes, which are not made aware and therefore not been evaluated.

6.0 PROFESSIONAL STATEMENT/SIGNATURE

This subsurface assessment at Simon Properties Buffalo, New York was performed in conformance with the scope and limitations of ASTM Practice E 1903-11 for the specific objectives specified in the report and was completed based on the scope of work. I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in 312.10 of 40CFR312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquires in conformance with the standards and practices set forth in 40 CFR 312.



1/14/2022

Jason M. Brydges P.E. MS/MBA — Date

FIGURES & TABLES

Figure 1: Property Location

2013

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

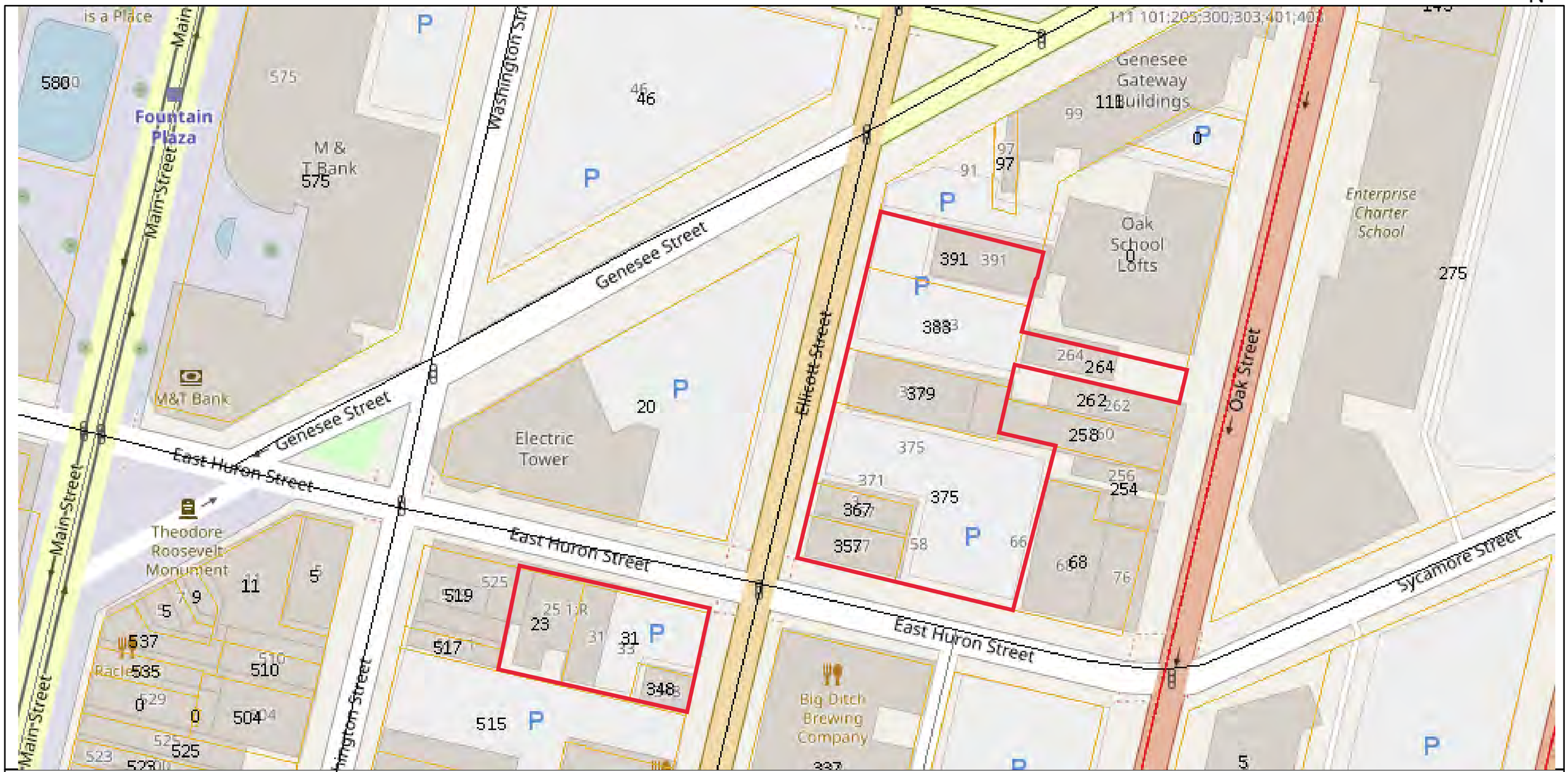
NW N NE
W E
SW S SE

TP, Buffalo NE, 2013, 7.5-minute
SE, Buffalo SE, 2013, 7.5-minute
SW, Buffalo SE OE W, 2013, 7.5-minute
NW, Buffalo NW, 2013, 7.5-minute

SITE NAME: Huron Oak Ellicott
ADDRESS: 23 East Huron
Buffalo, NY 14203
CLIENT: BE3

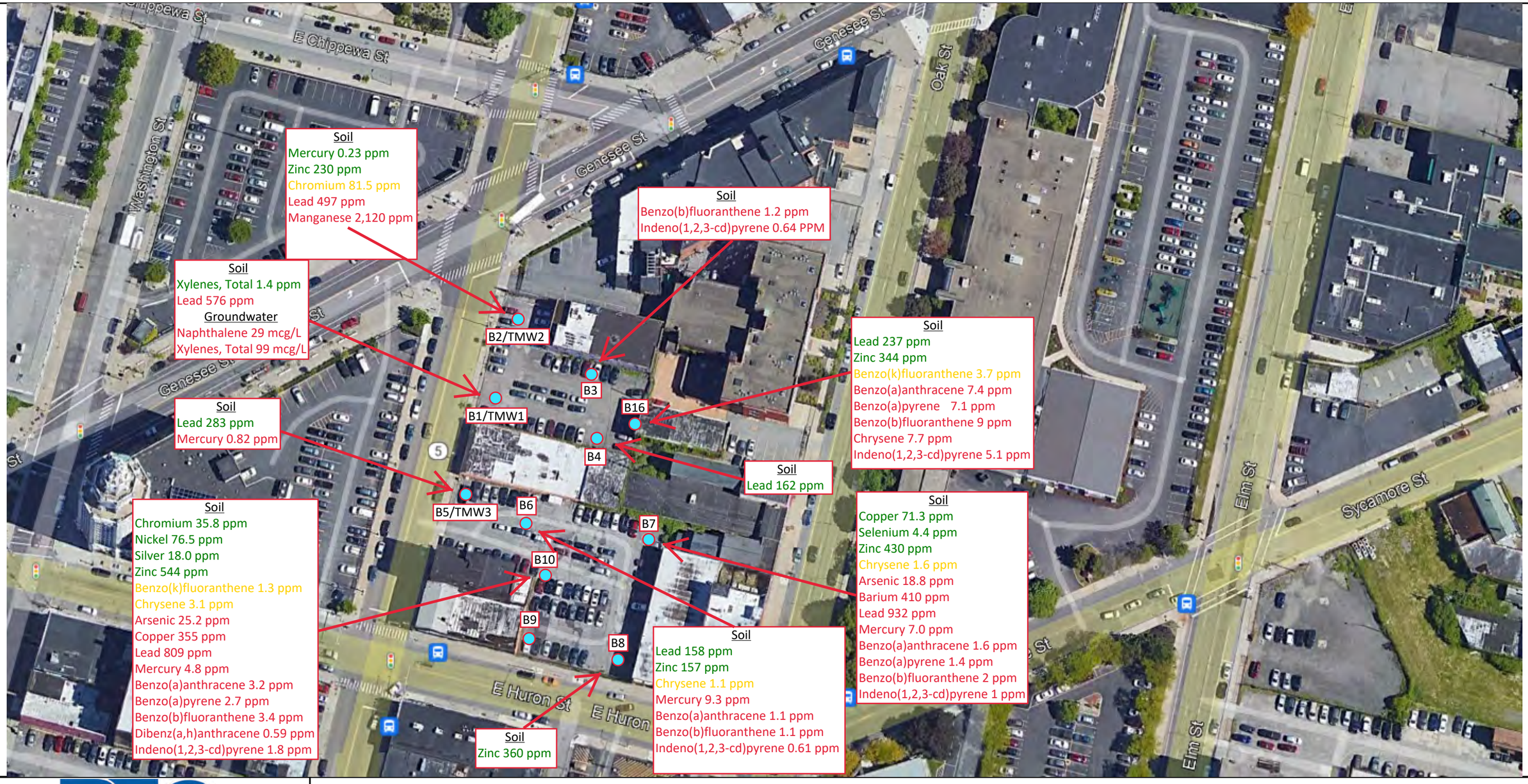
N

6506753



BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC	FIGURE 2: Property Boundaries	
	Simon Properties	1/11/2022
	Buffalo, New York	Douglas Development

N



BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

FIGURE 3: North Soil Boring/Monitoring Well Locations With Results

Simon Properties	1/11/2022
Buffalo, New York	Douglas Development

Green-Above unrestricted SCOs
Yellow-Above residential SCOs
Red-Above restricted residential SCOs
Boring Locations

N

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

FIGURE 4: South Soil Boring/Monitoring Well Locations With Results	
Simon Properties	1/11/2022
Buffalo, New York	Douglas Development

Green-Above unrestricted SCOs
Yellow-Above residential SCOs
Red-Above restricted residential SCOs
Boring Locations

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	Sample Identification, Sample Depth in feet below ground surface (bgs), and Sample Date									NYSDEC Soil Cleanup Objectives (SCOs)		
	B1S2 5-7	B1S3 10-12	B2S2 5-7	B3S1 0-2	B3S3 10-12	B4S1 0-2	B5S1 0-2	B6S1 0-2	B7S1 0-2	Unrestricted	Residential	Restricted Residential
	12/21/2021											
METALS/INORGANICS												
Aluminum	9,580	-	11,300	4,250	-	11,900	8,610	11,800	11,000	-	-	-
Antimony	1.3 J	-	8.9 J	0.87 J	-	0.88 J	1.5 J	0.70 J	2,7 J	-	-	-
Arsenic	4.8	-	10.4	1.4 J	-	5.5	5.8	4.5	18.8	13	16	16
Barium	79.4	-	264	22.8	-	107	69.3	58.2	410	350	350	400
Beryllium	0.51	-	0.76	0.22 J	-	1.1	0.46	0.62	0.62	7.2	14	72
Cadmium	0.31	-	0.82	0.14 J	-	1.2	0.68	0.36	0.81	2.5	2.5	4.3
Calcium	56,700 B	-	77,100 B	42,700 B	-	55,500 B	34,700 B	14,300 B	17,100 B	-	-	-
Chromium	14.6	-	81.5	6.4	-	14.6	17.5	16.0	24.4	30	36	180
Cobalt	5.6	-	6.6	2.3	-	5.5	4.3	4.8	9.8	-	-	-
Copper	17.1	-	42.1	4.4	-	19.7	32.2	23.2	71.3	50	270	270
Iron	14,300 B	-	30,000 B	7,200 B	-	13,500 B	13,400 B	11,900 B	21,800 B	-	-	-
Lead	576	-	497	14.4	-	162	283	158	932	63	400	400
Magnesium	7,430	-	9,190	18,100	-	15,700	10,600	5,990	6,030	-	-	-
Manganese	380	-	2,120 B	194 B	-	577 B	447 B	106 B	405 B	1,600	2,000	2,000
Mercury	0.067	-	0.23	0.021	-	0.064	0.82	9.3	7.0	0.18	0.81	0.81
Nickel	14.9	-	22.6	5.2 J	-	19.1	28.3	13.6	19.6	30	140	310
Potassium	2,390	-	1,710	1,280	-	2,600	1,380	1,170	1,980	-	-	-
Selenium	1.3 J	-	3.2 J	ND	-	1.2 J	1.1 J	0.88 J	4.4 J	3.9	180	1,500
Silver	ND	-	0.53 J	ND	-	ND	0.43 J	0.27 J	0.77 J	2	180	1,500
Sodium	380 B	-	383 B	226 B	-	353 B	390 B	280 B	421 B	-	-	-
Vanadium	22.4	-	48.7	14.2	-	21.4	19.0	21.8	26.3	-	-	-
Zinc	103	-	230	34.3	-	97.3	90.6	157	430	109	2,200	10,000
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)												
2-Methylnaphthalene	ND	-	ND	ND	-	ND	ND	0.059 J	ND	-	-	-
Acenaphthene	ND	-	ND	ND	-	ND	ND	0.26	0.35 J	20	100	100
Acenaphthylene	ND	-	ND	ND	-	ND	ND	0.039 J	ND	100	100	100
Anthracene	ND	-	ND	ND	-	ND	ND	0.6	0.74 J	100	100	100
Benzo(a)anthracene	ND	-	ND	0.87 J	-	0.21 J	ND	1.1	1.6	1	1	1
Benzo(a)pyrene	ND	-	ND	0.91 J	-	ND	ND	0.95	1.4	1	1	1
Benzo(b)fluoranthene	ND	-	ND	1.2 J	-	ND	ND	1.1	2	1	1	1
Benzo(g,h,i)perylene	ND	-	ND	0.76 J	-	0.24 J	ND	0.62	1.1	100	100	100
Benzo(k)fluoranthene	ND	-	ND	0.41 J	-	ND	ND	0.46	0.58 J	0.8	1	3.9
Carbazole	ND	-	ND	ND	-	ND	ND	0.24	0.31 J	-	-	-
Chrysene	ND	-	ND	0.91 J	-	ND	ND	1.1	1.6	1	1	3.9
Dibenz(a,h)anthracene	ND	-	ND	ND	-	ND	ND	0.2 J	0.3 J	0.33	0.33	0.33
Dibenzofuran	ND	-	ND	ND	-	ND	ND	0.18 J	0.16 J	7	14	59
Fluoranthene	0.22 J	-	3.4 J	1.5 J	-	0.39 J	ND	2.4	4	100	100	100
Fluorene	ND	-	ND	ND	-	ND	ND	0.26	0.3 J	30	100	100
Indeno(1,2,3-cd)pyrene	ND	-	ND	0.64 J	-	ND	ND	0.61	1 J	0.5	0.5	0.5
Naphthalene	ND	-	ND	ND	-	ND	ND	0.083 J	ND	12	100	100
Phenanthrene	0.17 J	-	ND	0.61 J	-	ND	ND	2.3	3	100	100	100
Pyrene	0.17 J	-	2.9 J	1.3 J	-	0.31 J	ND	2	3.1	100	100	100
Other SVOCs	ND	-	ND	ND	-	ND	ND	ND	ND	Various	Various	Various
VOLATILE ORGANIC COMPOUNDS (VOCs)												
Acetone	ND	ND	0.0096 J	-	0.0098 J	-	-	-	-	0.05	100	100
Isopropylbenzene	1 J	2.1 J	ND	-	ND	-	-	-	-	-	-	-
Methylcyclohexane	17	59	ND	-	ND	-	-	-	-	-	-	-
Xylenes, Total	1.4 J	ND	0.0013 J	-	ND	-	-	-	-	0.26	100	100
Other VOCs	ND	ND	ND	-	ND	-	-	-	-	Various	Various	Various

Notes: All units in parts per million (ppm)

ND Analyte not detected

- Not Applicable or sample not tested for this analyte

J Estimated Concentration

B Anaalyte detected in method blank

9,580 Analyte detected

0.23 Reported concentration greater than or equal to the NYSDEC Unrestricted SCO

81.5 Reported concentration greater than or equal to the NYSDEC Residential SCO

576 Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	Sample Identification, Sample Depth in feet below ground surface (bgs), and Sample Date									NYSDEC Soil Cleanup Objectives (SCOs)		
	B8S1 0-2	B9S1 0-2	B10S1 0-2	B11S1 0-2	B12S1 0-2	B13S1 0-2	B14S1 0-2	B15S1 0-2	B16S1 0-2	Unrestricted	Residential	Restricted Residential
	12/21/2021											
METALS/INORGANICS												
Aluminum	5,280	4,290	9,970	13,700	7,750	8,890	4,500	3,120	9100	-	-	-
Antimony	0.71 J	0.70 J	4.3 J	2.8 J	1.7 J	0.94 J	0.64 J	0.47 J	2.6 J	-	-	-
Arsenic	2.7	4.6	25.2	11.6	6.2	5.1	1.5 J	1.5 J	7.7	13	16	16
Barium	43.5	23.0	289	235	50.2	49.1	15.8	8.8	246	350	350	400
Beryllium	0.23 J	0.20 J	0.72	1.7	0.42	0.36	0.21	0.15 J	0.85	7.2	14	72
Cadmium	0.19 J	0.25	2.1	1.2	0.26	0.16 J	0.17 J	0.10 J	0.77	2.5	2.5	4.3
Calcium	107,000 B	171,000 B	35,900 B	48,500 B	94,700 B	94,300 B	41,000 B	112,000 B	41,900 B	-	-	-
Chromium	8.3	9.0	35.8	18.0	10.5	11.7	6.3	5.7	12.8	30	36	180
Cobalt	2.4	2.5	7.9	5.6	4.9	4.9	2.2	1.4	3.8	-	-	-
Copper	11.8	12.2	355	36.4	58.6	9.3	5.6	4.7	18.1	50	270	270
Iron	7,980 B	5,480 B	25,300 B	28,500 B	10,500 B	11,400 B	6,490 B	4,130 B	28,900 B	-	-	-
Lead	46.3	44.4	809	183	601	13.4	13.2	8.3	237	63	400	400
Magnesium	56,400	14,600	13'600	7,500	20,600	15,800	23,200	7,810	12,400	-	-	-
Manganese	278 B	141 B	374 B	1,480 B	302 B	317 B	253 B	88.1 B	453 B	1,600	2,000	2,000
Mercury	0.096	0.12	4.8	0.48	0.14	0.017 J	0.027	0.036	0.098	0.18	0.81	0.81
Nickel	8.2	12.5	76.5	18.6	15.2	13.3	5.9	5.6	12.3	30	140	310
Potassium	2,050	1,150	2,060	1,940	1,940	2,510	1,260	1,030	1,300	-	-	-
Selenium	ND	ND	3.2 J	3.1 J	0.82 J	0.69 J	0.51 J	ND	3.0 J	3.9	180	1,500
Silver	ND	ND	18.0	0.34 J	ND	ND	ND	ND	ND	2	180	1,500
Sodium	225 B	272 B	382 B	610 B	344 B	288 B	254 B	183 B	327 B	-	-	-
Vanadium	12.7	13.7	30.2	23.2	19.7	20.3	11.2	8.6	17.7	-	-	-
Zinc	360	56.7	544	266	83.7	43.9	36.5	35.3	344	109	2,200	10,000
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCS)												
2-Methylnaphthalene	ND	ND	ND	0.21 J	ND	ND	0.79 J	ND	ND	-	-	-
Acenaphthene	ND	ND	0.39 J	0.38 J	ND	ND	2.8 J	ND	ND	20	100	100
Acenaphthylene	ND	ND	0.27 J	ND	ND	ND	1.1 J	ND	ND	100	100	100
Anthracene	ND	ND	1.2	0.8 J	ND	ND	6.9	ND	ND	100	100	100
Benzo(a)anthracene	ND	ND	3.2	1.7	ND	ND	14	ND	7.4 J	1	1	1
Benzo(a)pyrene	ND	ND	2.7	1.6	ND	ND	12	ND	7.1 J	1	1	1
Benzo(b)fluoranthene	ND	ND	3.4	1.9	ND	ND	16	ND	9 J	1	1	1
Benzo(g,h,i)perylene	ND	ND	1.8	1.4	ND	ND	8.5	ND	5 J	100	100	100
Benzo(k)fluoranthene	ND	ND	1.3	0.84 J	ND	ND	5.4	ND	3.7 J	0.8	1	3.9
Carbazole	ND	ND	0.75 J	0.48 J	ND	ND	3.2 J	ND	ND	-	-	-
Chrysene	ND	ND	3.1	1.6	ND	ND	13	ND	7.7 J	1	1	3.9
Dibenz(a,h)anthracene	ND	ND	0.59 J	0.42 J	ND	ND	2 J	ND	ND	0.33	0.33	0.33
Dibenzofuran	ND	ND	0.31 J	0.3 J	ND	ND	2.1 J	ND	ND	7	14	59
Fluoranthene	ND	ND	7.2	3.9	ND	ND	36	ND	18 J	100	100	100
Fluorene	ND	ND	0.49 J	0.39 J	ND	ND	2.3 J	ND	ND	30	100	100
Indeno(1,2,3-cd)pyrene	ND	ND	1.8	1.3	ND	ND	7.6	ND	5.1 J	0.5	0.5	0.5
Naphthalene	ND	ND	0.15 J	0.24 J	ND	ND	1 J	ND	ND	12	100	100
Phenanthrene	ND	ND	5.4	3.5	ND	ND	32	ND	13 J	100	100	100
Pyrene	ND	ND	5.2	2.7	ND	ND	29	ND	13 J	100	100	100
Other SVOCs	ND	ND	ND	ND	ND	ND	ND	ND	ND	Various	Various	Various
VOLATILE ORGANIC COMPOUNDS (VOCS)												
VOCs	-	-	-	-	-	-	-	-	-	Various	Various	Various

Notes: All units in parts per million (ppm)

ND Analyte not detected

\- Not Applicable or sample not tested for this analyte

J Estimated Concentration

B Anaalyte detected in method blank

5,280 Analyte detected

35.8 Reported concentration greater than or equal to the NYSDEC Unrestricted SCO

1.3 Reported concentration greater than or equal to the NYSDEC Residential SCO

25.2 Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO

TABLE 2
SUMMARY OF GROUNDWATER RESULTS

Parameter Tested	Sample Identification, Approximate Groundwater Depth Feet Below Ground Surface, and Sample Date				NYSDEC TOGS 1.1.1 GA
	TMW1	TMW2	TMW3	TMW4	
	-	7.42	7.45	9.3	
	12/21/2021				
VOLATILE ORGANIC COMPOUNDS (VOCs)					
2-Butanone (MEK)	ND	ND	ND	**1.6 J**	50
Acetone	ND	**4.4 J**	**3.2**	**7.7 J**	50
Benzene	ND	**0.51 J**	**0.54 J**	**0.41 J**	1
Cyclohexane	**360**	**1.0**	**0.35 J**	**0.21 J**	-
Methylcyclohexane	**810**	**2.0**	**0.27 J**	ND	-
Toluene	ND	**0.84 J**	**0.57 J**	ND	5
Xylenes, Total	**99 J**	**0.71 J**	ND	ND	5
Other VOCs	ND	ND	ND	ND	Various
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)					
Fluoranthene	**8.8 J**	ND	-	-	50
Naphthalene	**29 J**	ND	-	-	10
Pyrene	**7.7 J**	ND	-	-	50
Other SVOCs	ND	ND	-	-	Various

Notes: All units in microgams per liter (µg/L)
NYSDEC New York State Department of Environmental Conservation
TOGS Technical and Operational Guidance Series
ND Analyte not detected
- Not Applicable or sample not tested for this analyte
360 Analyte Detected
99 Reported Concentration Exceeds NYSDEC TOGS Value

APPENDICES

Appendix A

Site Photographs

BE3 Photolog

Date: 12/21/21

Boring B1 Location

Boring B1 Soil Cores

Boring B2 Location

Boring B2 Soil Cores

BE3 Photolog

Date: 12/21/21

Boring B3 Location

Boring B3 Soil Cores

Boring B4 Location

Boring B4 Soil Cores

BE3 Photolog

Date: 12/21/21

Boring B5 Location

Boring B5 Soil Cores

Boring B6 Location

Boring B6 Soil Cores

BE3 Photolog

Date: 12/21/21

Boring B7 Location

Boring B7 Soil Cores

Boring B8 Location

Boring B8 Soil Cores

BE3 Photolog

Date: 12/21/21

Boring B9 Location

Boring B9 Soil Cores

Boring B10 Location

Boring B10 Soil Cores

BE3 Photolog

Date: 12/21/21

Boring B11 Location

Boring B11 Soil Cores

Boring B12 Location

Boring B12 Soil Cores

BE3 Photolog

Date: 12/21/21

Boring B13 Location

Boring B13 Soil Cores

Boring B14 Location

Boring B14 Soil Cores

BE3 Photolog

Date: 12/21/21

Boring B15 Location

Boring B15 Soil Cores

Boring B16 Location

Boring B16 Soil Cores

Appendix B

Boring Logs

Remedial Investigation Boring Log

Boring ID: B1
Drilling Company: TREC
Drill Type: Geo Probe
Weather: 33°F, Cloudy, Wind: NW 5MPH

Environmental Scientist: Dalton Stack
Location: 383 Ellicott
Drill Date: 12/21/2021
Drill Time: 8:55AM

Borehole Depth (Ft)	Soil	Description	PID PPM
0		Black, Asphalt	0
1–5		Gray, Poorly graded sand with gravel (SP); Moist; Fill	0
5–10		Black, Poorly graded sand with silt (SP-SM); Moist; Native	470
10–15		Black, Poorly graded sand with silt (SP-SM); Wet; Native	500

Soil Cores

Boring B1 Location

Project: Simon Properties

Client: Douglas Development Corporation

Address: 383 Ellicot Street, Buffalo, NY 14203

BE3 CORP
BRYDGES ENGINEERING IN ENVIRONMENT & ENERGY

Remedial Investigation Boring Log

Boring ID: B2
Drilling Company: TREC
Drill Type: Geo Probe
Weather: 33°F, Cloudy, Wind: NW 5MPH

Environmental Scientist: Dalton Stack
Location: 391 Ellicott
Drill Date: 12/21/2021
Drill Time: 9:30AM

Borehole Depth (Ft)	Soil	Description	PID PPM
0		Black, Asphalt	0
1			
2		Brown, Poorly graded sand with gravel (SP); Moist; Fill	0.2
3			
4			
5		Gray, Poorly graded sand with silt (SP-SM); Moist; Trace C&D; Native	10.4
6			
7			
8			
9			
10		Brown, Poorly graded sand (SP); Wet; Native	1.2
11			
12			
13		Brown, Silt (ML); Moist; Native	1.2
14			
15			

Soil Cores

Boring B2 Location

Project: Simon Properties

Client: Douglas Development Corporation

Address: 391 Ellicot Street, Buffalo, NY 14203

BE3 CORP
BRYDGES ENGINEERING IN ENVIRONMENT & ENERGY

Remedial Investigation Boring Log

Boring ID: B3
Drilling Company: TREC
Drill Type: Geo Probe
Weather: 33°F, Cloudy, Wind: NW 5MPH

Environmental Scientist: Dalton Stack
Location: 383 Ellicott
Drill Date: 12/21/2021
Drill Time: 9:55AM

Borehole Depth (Ft)	Soil	Description	PID PPM
0		Black, Asphalt	0
1–5		Black, Poorly graded sand with gravel (SP); Moist; Fill	0.1
5–10		Brown, Poorly graded sand with silt (SP-SM); Moist; Native	0.1
10–15		Brown, Silt with Sand (ML); Moist; Native	0.3

Soil Cores

Boring B3 Location

Project: Simon Properties

Client: Douglas Development Corporation

Address: 383 Ellicot Street, Buffalo, NY 14203

BE3 CORP
BRYDGES ENGINEERING IN ENVIRONMENT & ENERGY

Remedial Investigation Boring Log

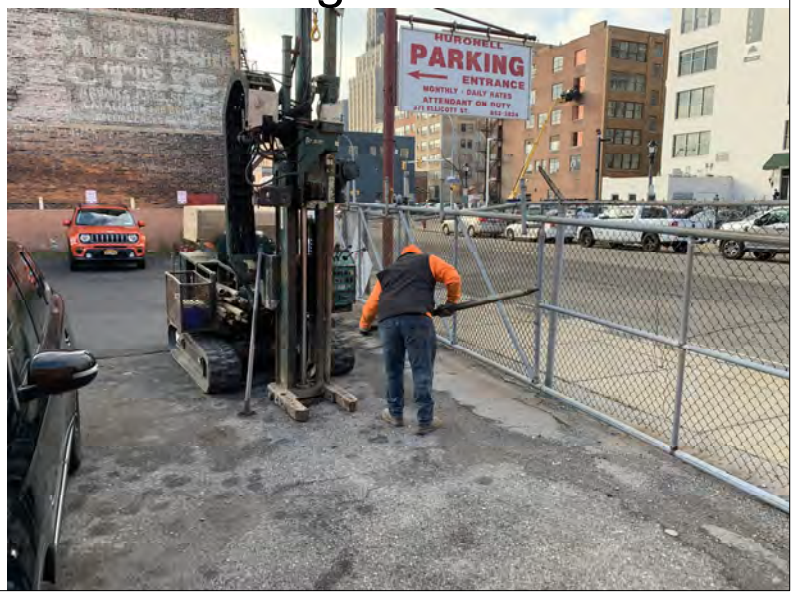
Boring ID: B4
Drilling Company: TREC
Drill Type: Geo Probe
Weather: 33°F, Cloudy, Wind: NW 5MPH

Environmental Scientist: Dalton Stack
Location: 383 Ellicott
Drill Date: 12/21/2021
Drill Time: 10:15AM

Borehole Depth (Ft)	Soil	Description	PID PPM
0		Black, Asphalt	0
0.5			
1			
1.5			
2		Black, Poorly graded sand with gravel (SP); Moist; Fill	
2.5			0
3			
3.5			
4			
4.5			
5			
5.5		Brown, Poorly graded sand with silt (SP-SM); Wet; Native	
6			
6.5			
7			
7.5			0
8			
8.5			
9			
9.5			
10			

Soil Cores

Boring B4 Location



Project: Simon Properties

Client: Douglas Development Corporation

Address: 383 Ellicot Street, Buffalo, NY 14203

BE3 CORP
BRYDGES ENGINEERING IN ENVIRONMENT & ENERGY

Remedial Investigation Boring Log

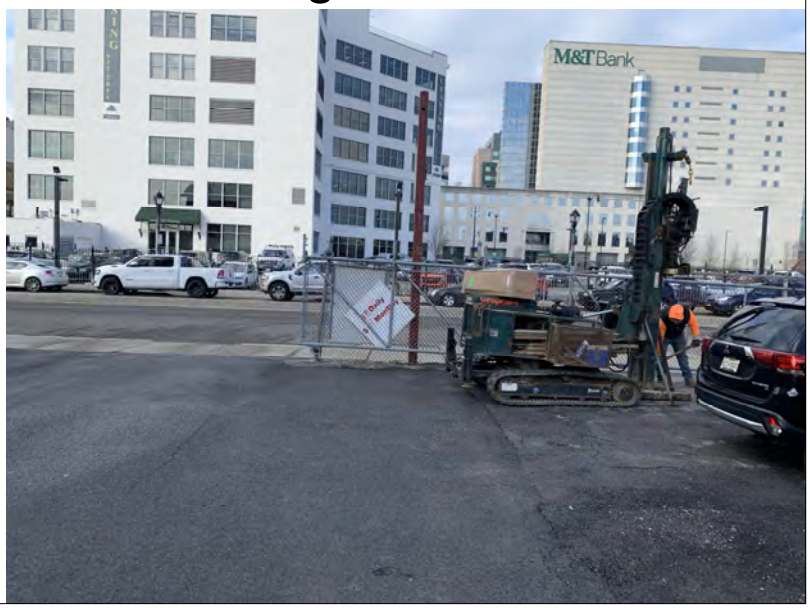
Boring ID: B5
Drilling Company: TREC
Drill Type: Geo Probe
Weather: 33°F, Cloudy, Wind: NW 5MPH

Environmental Scientist: Dalton Stack
Location: 375 Ellicott
Drill Date: 12/21/2021
Drill Time: 10:35AM

Borehole Depth (Ft)	Soil	Description	PID PPM
0		Black, Asphalt	0
1–5		Black, Poorly graded sand with gravel (SP); Moist; Fill	0.1
5–15		Brown, Poorly graded sand with silt (SP-SM); Moist; Native	0

Soil Cores

Boring B5 Location



Project: Simon Properties

Client: Douglas Development Corporation

Address: 375 Ellicot Street, Buffalo, NY 14203

BE3 CORP
BRYDGES ENGINEERING IN ENVIRONMENT & ENERGY

Remedial Investigation Boring Log

Boring ID: B6
Drilling Company: TREC
Drill Type: Geo Probe
Weather: 33°F, Cloudy, Wind: NW 5MPH

Environmental Scientist: Dalton Stack
Location: 375 Ellicott
Drill Date: 12/21/2021
Drill Time: 11:00AM

Borehole Depth (Ft)	Soil	Description	PID PPM
0 – 0.5		Black, Asphalt	0
0.5 – 3		Black, Poorly graded sand with gravel (SP); Moist; Fill	0
3 – 10		Light Brown, Poorly graded sand with silt (SP-SM); Moist; Native	0

Soil Cores

Boring B6 Location

Project: Simon Properties

Client: Douglas Development Corporation

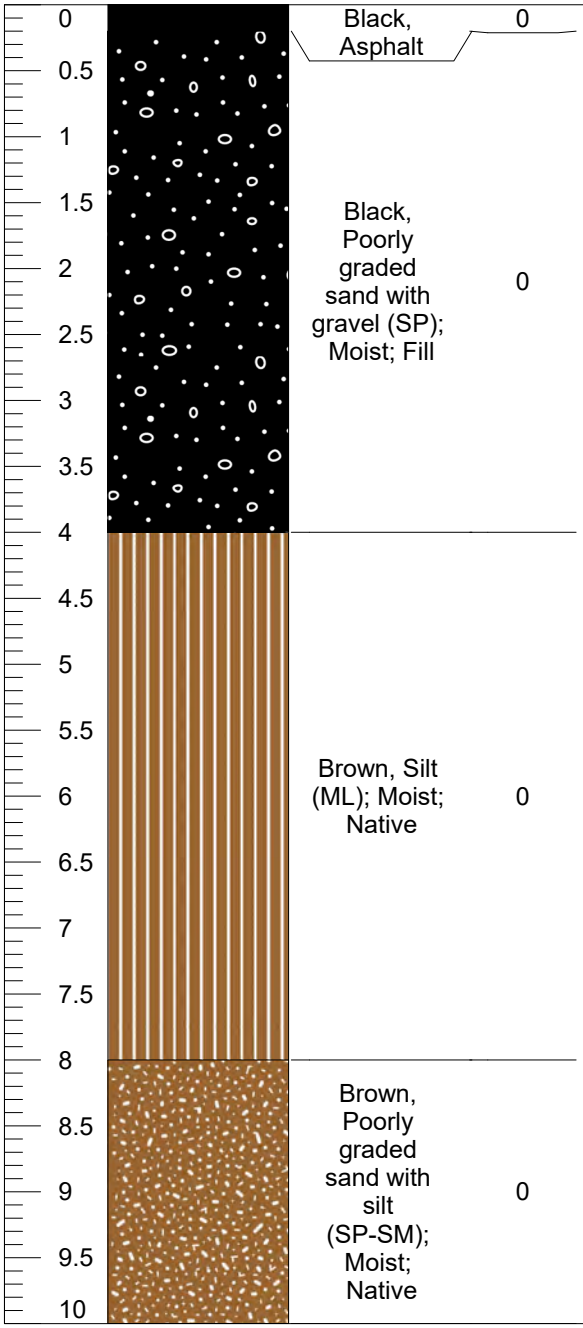
Address: 375 Ellicot Street, Buffalo, NY 14203

BE3 CORP
BRYDGES ENGINEERING IN ENVIRONMENT & ENERGY

Remedial Investigation Boring Log

Boring ID: B7
Drilling Company: TREC
Drill Type: Geo Probe
Weather: 33°F, Cloudy, Wind: NW 5MPH

Environmental Scientist: Dalton Stack
Location: 375 Ellicott
Drill Date: 12/21/2021
Drill Time: 11:15AM



Soil Cores

Boring B7 Location

Project: Simon Properties

Client: Douglas Development Corporation

Address: 375 Ellicot Street, Buffalo, NY 14203

BE3CORP
BRYDGES ENGINEERING IN ENVIRONMENT & ENERGY

Remedial Investigation Boring Log

Boring ID: B8
Drilling Company: TREC
Drill Type: Geo Probe
Weather: 33°F, Cloudy, Wind: NW 5MPH

Environmental Scientist: Dalton Stack
Location: 375 Ellicott
Drill Date: 12/21/2021
Drill Time: 11:25AM

Borehole Depth (Ft)	Soil	Description	PID PPM
0		Black, Asphalt	0
0.5			
1			
1.5		Black, Poorly graded sand with gravel (SP); Moist; Fill	
2			0
2.5			
3			
3.5			
4			
4.5			
5			
5.5			
6		Brown, Silt (ML); Moist; Native	0
6.5			
7			
7.5			
8			
8.5		Brown, Poorly graded sand with silt (SP-SM); Moist; Native	
9			0
9.5			
10			

Soil Cores

Boring B8 Location

Project: Simon Properties

Client: Douglas Development Corporation

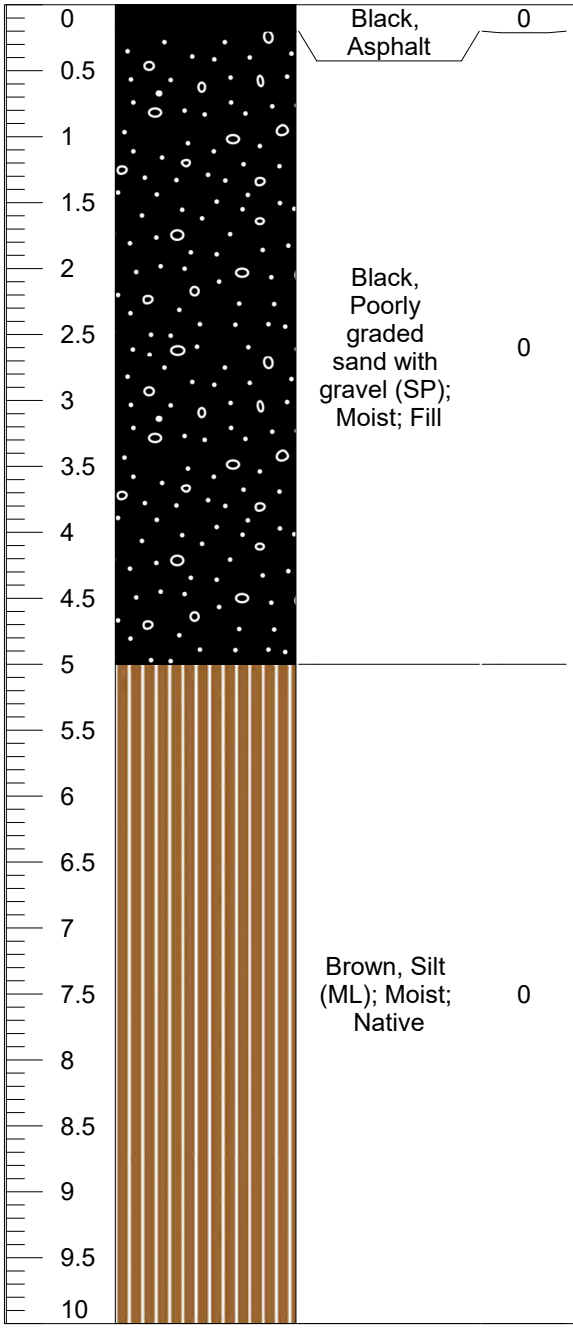
Address: 375 Ellicot Street, Buffalo, NY 14203

BE3 CORP
BRYDGES ENGINEERING IN ENVIRONMENT & ENERGY

Remedial Investigation Boring Log

Boring ID: B9
Drilling Company: TREC
Drill Type: Geo Probe
Weather: 33°F, Cloudy, Wind: NW 5MPH

Environmental Scientist: Dalton Stack
Location: 375 Ellicott
Drill Date: 12/21/2021
Drill Time: 11:30AM



Soil Cores

Boring B9 Location

Project: Simon Properties

Client: Douglas Development Corporation

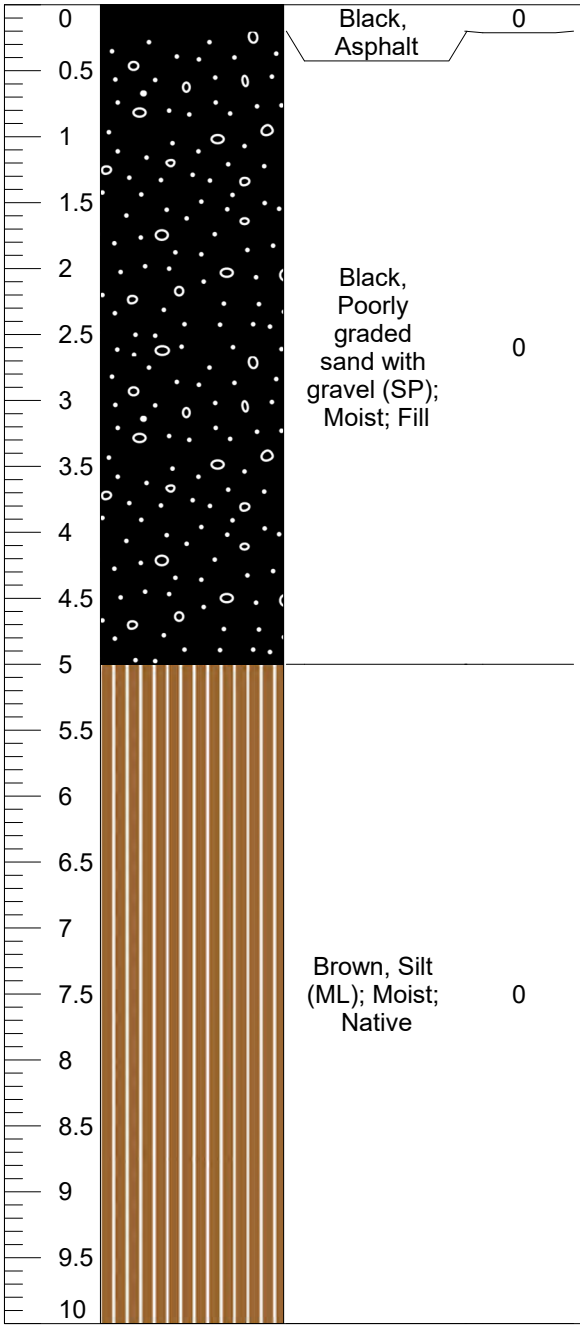
Address: 375 Ellicot Street, Buffalo, NY 14203

BE3CORP
BRYDGES ENGINEERING IN ENVIRONMENT & ENERGY

Remedial Investigation Boring Log

Boring ID: B10
Drilling Company: TREC
Drill Type: Geo Probe
Weather: 33°F, Cloudy, Wind: NW 5MPH

Environmental Scientist: Dalton Stack
Location: 375 Ellicott
Drill Date: 12/21/2021
Drill Time: 11:35AM



Soil Cores

Boring B10 Location

Project: Simon Properties

Client: Douglas Development Corporation

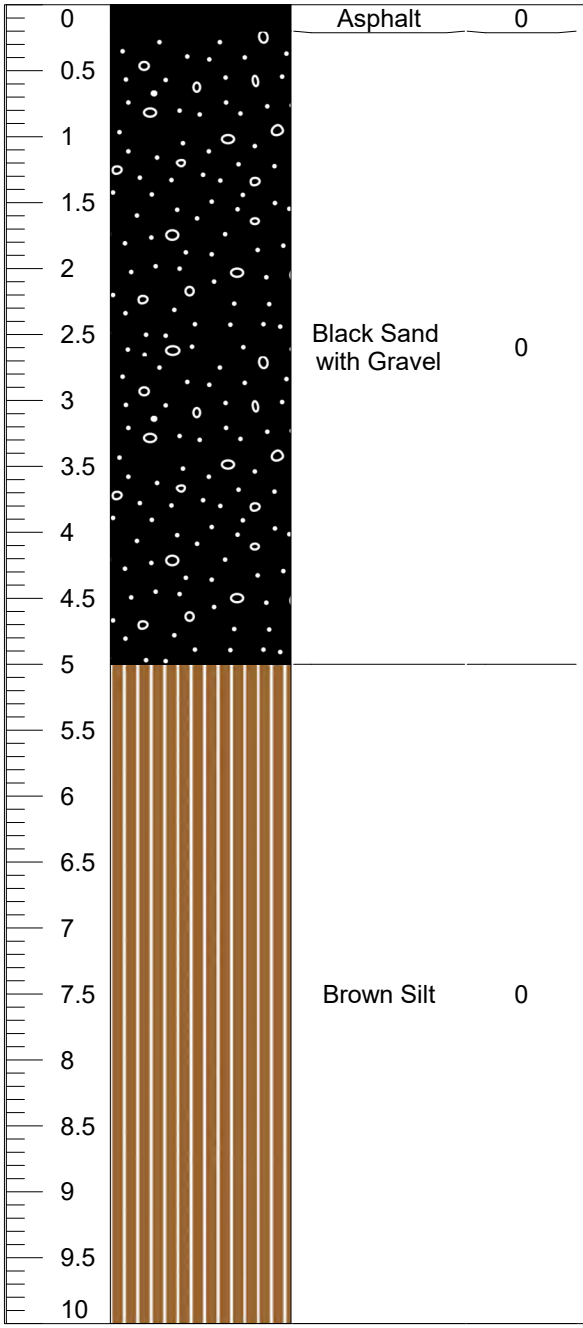
Address: 375 Ellicot Street, Buffalo, NY 14203

BE3 CORP
BRYDGES ENGINEERING IN ENVIRONMENT & ENERGY

Remedial Investigation Boring Log

Boring ID: B11
Drilling Company: TREC
Drill Type: Geo Probe
Weather: 33°F, Cloudy, Wind: NW 5MPH

Environmental Scientist: Dalton Stack
Location: 31 East Huron
Drill Date: 12/21/2021
Drill Time: 12:00PM



Soil Cores

Boring B11 Location

Project: Simon Properties

Client: Douglas Development Corporation

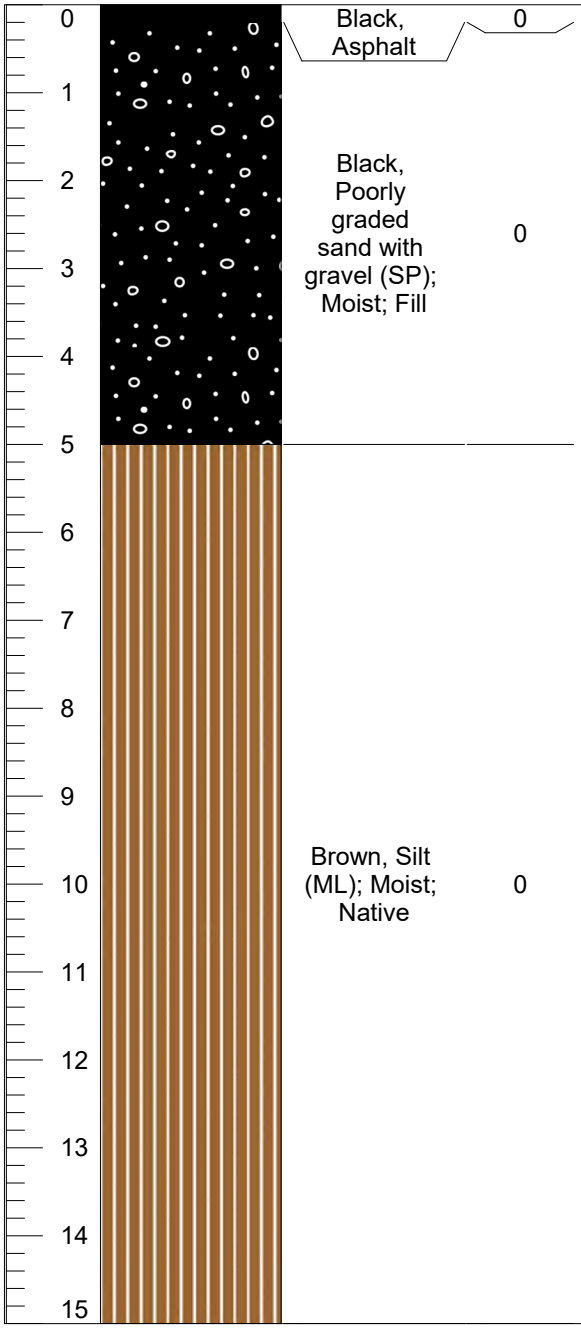
Address: 31 East Huron Street, Buffalo, NY 14203

BE3CORP
BRYDGES ENGINEERING IN ENVIRONMENT & ENERGY

Remedial Investigation Boring Log

Boring ID: B12
Drilling Company: TREC
Drill Type: Geo Probe
Weather: 33°F, Cloudy, Wind: NW 5MPH

Environmental Scientist: Dalton Stack
Location: 31 East Huron
Drill Date: 12/21/2021
Drill Time: 12:15PM



Soil Cores

Boring B12 Location

Project: Simon Properties

Client: Douglas Development Corporation

Address: 31 East Huron Street, Buffalo, NY 14203

BE3CORP
BRYDGES ENGINEERING IN ENVIRONMENT & ENERGY

Remedial Investigation Boring Log

Boring ID: B13
Drilling Company: TREC
Drill Type: Geo Probe
Weather: 33°F, Cloudy, Wind: NW 5MPH

Environmental Scientist: Dalton Stack
Location: 31 East Huron
Drill Date: 12/21/2021
Drill Time: 12:35PM

Borehole Depth (Ft)	Soil	Description	PID PPM
0		Black, Asphalt	0
0.5 – 5		Brown, Poorly graded sand with silt (SP-SM); Moist; Slag; Fill	0
5.5 – 10		Brown, Silt with Sand (ML); Moist; Native	0

Soil Cores

Boring B13 Location

Project: Simon Properties

Client: Douglas Development Corporation

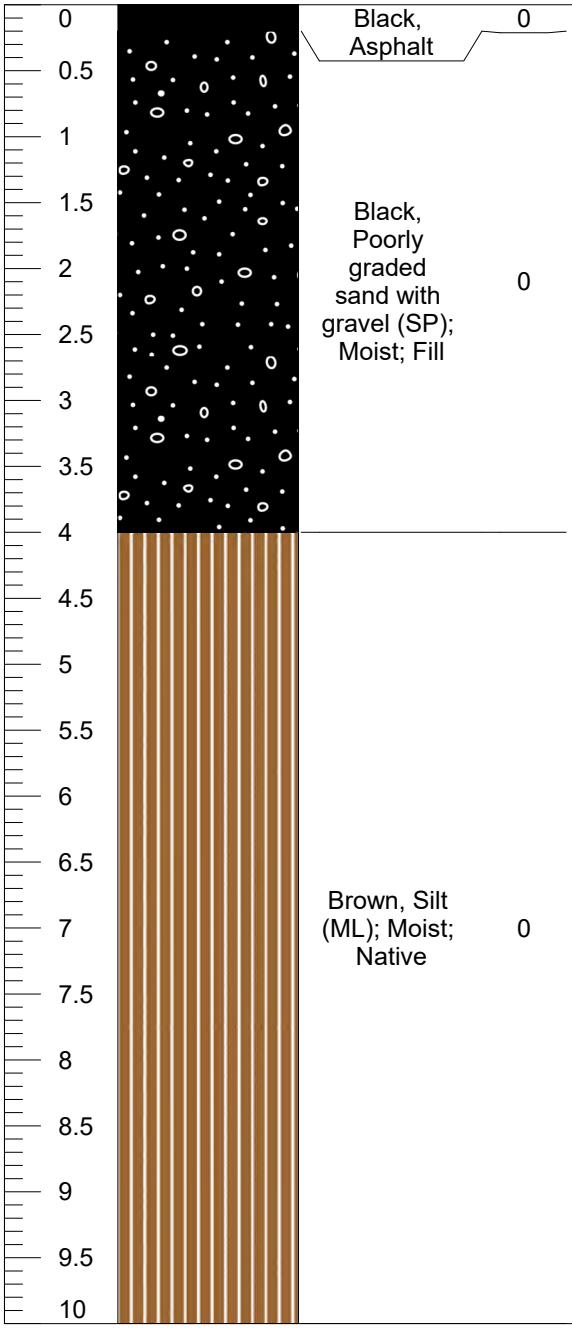
Address: 31 East Huron Street, Buffalo, NY 14203

BE3 CORP
BRYDGES ENGINEERING IN ENVIRONMENT & ENERGY

Remedial Investigation Boring Log

Boring ID: B14
Drilling Company: TREC
Drill Type: Geo Probe
Weather: 33°F, Cloudy, Wind: NW 5MPH

Environmental Scientist: Dalton Stack
Location: 31 East Huron
Drill Date: 12/21/2021
Drill Time: 12:50PM



Soil Cores

Boring B14 Location

Project: Simon Properties

Client: Douglas Development Corporation

Address: 31 East Huron Street, Buffalo, NY 14203

BE3 CORP
BRYDGES ENGINEERING IN ENVIRONMENT & ENERGY

Remedial Investigation Boring Log

Boring ID: B15
Drilling Company: TREC
Drill Type: Geo Probe
Weather: 33°F, Cloudy, Wind: NW 5MPH

Environmental Scientist: Dalton Stack
Location: 31 East Huron
Drill Date: 12/21/2021
Drill Time: 12:55PM

Borehole Depth (Ft)	Soil	Description	PID PPM
0 – 0.5		Black, Asphalt	0
0.5 – 4		Black, Poorly graded sand with gravel (SP); Moist; Fill	0
4 – 10		Brown, Silt (ML); Moist; Native	0

Soil Cores

Boring B15 Location

Project: Simon Properties

Client: Douglas Development Corporation

Address: 31 East Huron Street, Buffalo, NY 14203

BE3 CORP
BRYDGES ENGINEERING IN ENVIRONMENT & ENERGY

Remedial Investigation Boring Log

Boring ID: B16
Drilling Company: TREC
Drill Type: Geo Probe
Weather: 33°F, Cloudy, Wind: NW 5MPH

Environmental Scientist: Dalton Stack
Location: 264 Oak Street
Drill Date: 12/21/2021
Drill Time: 1:30PM

Borehole Depth (Ft)	Soil	Description	PID PPM
0		Black, Asphalt	0
1–5		Black, Poorly graded sand with gravel (SP); Moist; Fill	0
5–10		Brown, Poorly graded sand with silt (SP-SM); Moist; Native	0
10–15		Brown, Silt with Sand (ML); Moist; Native	0

Soil Cores

Boring B16 Location

Project: Simon Properties

Client: Douglas Development Corporation

Address: 264 Oak Street, Buffalo, NY 14203

BE3 CORP
BRYDGES ENGINEERING IN ENVIRONMENT & ENERGY

Appendix C

Laboratory Data

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-193741-1
Client Project/Site: Simon Properties

For:
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

Attn: Jake Tracy

Authorized for release by:
1/6/2022 2:10:56 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Joe Giacomazza, Project Manager I
(716)691-2600
joe.giacomazza@testamericainc.com

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A- L low-level specifications.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Job ID: 480-193741-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-193741-1

Comments
No additional comments.

Receipt
The samples were received on 12/22/2021 2:57 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.1º C.

GC/MS VOA
Method 8260C: The following sample was diluted due to the nature of the sample matrix: TMW1 (480-193741-19). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: TMW1 (480-193741-19), TMW2 (480-193741-20), TMW3 (480-193741-21) and TMW4 (480-193741-22). pH is 7.

Method 8260C: Due to the co-elution of, Ethyl Acetate with 2-Butanone in the full spike solution, 2-Butanone exceeded control limits in the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with batch 480-610055. The following samples were affected : B2S2 (480-193741-3) and B3S3 (480-193741-5).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-610055 recovered above the upper control limit for Carbon tetrachloride. The sample(s) associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The associated samples are impacted: B2S2 (480-193741-3) and B3S3 (480-193741-5).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-610055 recovered outside acceptance criteria, low biased, for Methylene Chloride. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated sample(s) were non-detect for the analyte, the data are reported. The associated samples are: B2S2 (480-193741-3) and B3S3 (480-193741-5).

Method 8260C: The following samples were analyzed using medium level soil analysis and diluted due to the nature of the sample matrix: B1S2 (480-193741-1) and B1S3 (480-193741-2). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method 8270D: The following sample was diluted due to the nature of the sample matrix: TMW1 (480-193741-19). Elevated reporting limits (RLs) are provided.

Method 8270D: Surrogate recovery for the following sample was outside the upper control limit: TMW1 (480-193741-19). This sample did not contain any target analytes or are below client reporting limit; therefore, re-extraction and/or re-analysis was not performed.

Method 8270D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 480-610190 and analytical batch 480-610354 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples or are below client reporting limits; therefore, the data have been reported.

Method 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-610190 and analytical batch 480-610354 recovered outside control limits for the following surrogate: 2,4,6-Tribromophenol. This surrogate is biased high and no detections were found for associated analytes or are below client reporting limits in the following affected samples: TMW1 (480-193741-19) and TMW2 (480-193741-20). Therefore, the data has been reported.

Method 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Benzaldehyde. The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with preparation batch 480-610190 and analytical batch 480-610354 recovered within acceptable limits for this analyte and has been qualified with an "E" flag. (LCS

Job ID: 480-193741-1 (Continued)

Laboratory: Eurofins Buffalo (Continued)

480-610190/2-A) and (LCSD 480-610190/3-A)

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: B1S2 (480-193741-1), B2S2 (480-193741-3), B3S1 (480-193741-4), B4S1 (480-193741-6), B5S1 (480-193741-7), B7S1 (480-193741-9), B8S1 (480-193741-10), B9S1 (480-193741-11), B10S1 (480-193741-12), B11S1 (480-193741-13), B12S1 (480-193741-14), B13S1 (480-193741-15), B14S1 (480-193741-16), B15S1 (480-193741-17), B16S1 (480-193741-18), (480-193741-B-16-A MS) and (480-193741-B-16-B MSD). Elevated reporting limits (RL) are provided.

Method 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Benzaldehyde. The laboratory control sample (LCS) associated with preparation batch 480-610450 and analytical batch 480-610710 recovered within acceptable limits for this analyte and has been qualified with an "E" flag.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: B2S2 (480-193741-3), B12S1 (480-193741-14), B13S1 (480-193741-15), B14S1 (480-193741-16), B15S1 (480-193741-17) and B16S1 (480-193741-18). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: B9S1 (480-193741-11). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: (480-193741-B-16-A MS) and (480-193741-B-16-B MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

Metals

Method 6010C: The Low Level Continuing Calibration Verification, (CCVL 610332/19) associated with batch 480-610332, contained Total Sodium above the upper quality control limit. The associated samples were either below the reporting limit (RL) for the affected analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples (MB 480-610017/1-A) was not performed.

Method 6010C: The following samples were diluted due to the presence of Total Calcium which interferes with Copper: B9S1 (480-193741-11) and B15S1 (480-193741-17). Elevated reporting limits (RLs) are provided.

Method 6010C: The method blank for preparation batch 480-610017 and analytical batch 480-610332 contained Total Manganese above the reporting limit (RL). Associated sample(s) B1S2 (480-193741-1), B2S2 (480-193741-3), B3S1 (480-193741-4), B4S1 (480-193741-6), B5S1 (480-193741-7), B6S1 (480-193741-8), B7S1 (480-193741-9), B8S1 (480-193741-10), B9S1 (480-193741-11), B10S1 (480-193741-12), B11S1 (480-193741-13), B12S1 (480-193741-14), B13S1 (480-193741-15), B14S1 (480-193741-16), B15S1 (480-193741-17) and B16S1 (480-193741-18) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-610190.

Method 3510C: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: TMW1 (480-193741-19).

Method 3550C: Due to the matrix, the following samples could not be concentrated to the final method required volume: B2S2 (480-193741-3), B12S1 (480-193741-14), B13S1 (480-193741-15), B15S1 (480-193741-17) and B16S1 (480-193741-18). The reporting limits (RLs) are elevated proportionately.

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

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B1S2
Lab Sample ID: 480-193741-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	1000	J	2500	380	ug/Kg	20	☼	8260C	Total/NA
Methylcyclohexane	17000		2500	1200	ug/Kg	20	☼	8260C	Total/NA
Xylenes, Total	1400	J	5100	1400	ug/Kg	20	☼	8260C	Total/NA
Fluoranthene	220	J	1000	110	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	170	J	1000	150	ug/Kg	5	☼	8270D	Total/NA
Pyrene	170	J	1000	120	ug/Kg	5	☼	8270D	Total/NA
Aluminum	9580	F1	12.5	5.5	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.3	J F1	18.8	0.50	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.8		2.5	0.50	mg/Kg	1	☼	6010C	Total/NA
Barium	79.4	F1	0.63	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.51		0.25	0.035	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.31		0.25	0.038	mg/Kg	1	☼	6010C	Total/NA
Calcium	56700	F2 B	62.7	4.1	mg/Kg	1	☼	6010C	Total/NA
Chromium	14.6		0.63	0.25	mg/Kg	1	☼	6010C	Total/NA
Cobalt	5.6		0.63	0.063	mg/Kg	1	☼	6010C	Total/NA
Copper	17.1		1.3	0.26	mg/Kg	1	☼	6010C	Total/NA
Iron	14300	F2 B	12.5	4.4	mg/Kg	1	☼	6010C	Total/NA
Lead	576	F2	1.3	0.30	mg/Kg	1	☼	6010C	Total/NA
Magnesium	7430	F1 F2	25.1	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	380	F2 B	0.25	0.040	mg/Kg	1	☼	6010C	Total/NA
Nickel	14.9		6.3	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	2390	F1 F2	37.6	25.1	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.3	J	5.0	0.50	mg/Kg	1	☼	6010C	Total/NA
Sodium	380	B	175	16.3	mg/Kg	1	☼	6010C	Total/NA
Vanadium	22.4		0.63	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	103	F1 F2	2.5	0.80	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.067		0.022	0.0051	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B1S3
Lab Sample ID: 480-193741-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	2100	J	6800	1000	ug/Kg	50	☼	8260C	Total/NA
Methylcyclohexane	59000		6800	3200	ug/Kg	50	☼	8260C	Total/NA

Client Sample ID: B2S2
Lab Sample ID: 480-193741-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.6	J vs	29	4.9	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	1.3	J vs	12	0.99	ug/Kg	1	☼	8260C	Total/NA
Fluoranthene	3400	J	20000	2200	ug/Kg	10	☼	8270D	Total/NA
Pyrene	2900	J	20000	2400	ug/Kg	10	☼	8270D	Total/NA
Aluminum	11300		12.2	5.4	mg/Kg	1	☼	6010C	Total/NA
Antimony	8.9	J	18.3	0.49	mg/Kg	1	☼	6010C	Total/NA
Arsenic	10.4		2.4	0.49	mg/Kg	1	☼	6010C	Total/NA
Barium	264		0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.76		0.24	0.034	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.82		0.24	0.037	mg/Kg	1	☼	6010C	Total/NA
Calcium	77100	B	61.0	4.0	mg/Kg	1	☼	6010C	Total/NA
Chromium	81.5		0.61	0.24	mg/Kg	1	☼	6010C	Total/NA
Cobalt	6.6		0.61	0.061	mg/Kg	1	☼	6010C	Total/NA
Copper	42.1		1.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Iron	30000	B	12.2	4.3	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: B2S2 (Continued)
Lab Sample ID: 480-193741-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	497		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Magnesium	9190		24.4	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	2120	B	0.24	0.039	mg/Kg	1	☼	6010C	Total/NA
Nickel	22.6		6.1	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1710		36.6	24.4	mg/Kg	1	☼	6010C	Total/NA
Selenium	3.2	J	4.9	0.49	mg/Kg	1	☼	6010C	Total/NA
Silver	0.53	J	0.73	0.24	mg/Kg	1	☼	6010C	Total/NA
Sodium	383	B	171	15.9	mg/Kg	1	☼	6010C	Total/NA
Vanadium	48.7		0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	230		2.4	0.78	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.23		0.021	0.0048	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B3S1
Lab Sample ID: 480-193741-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	870	J	1900	190	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	910	J	1900	280	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	1200	J	1900	300	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	760	J	1900	200	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	410	J	1900	250	ug/Kg	10	☼	8270D	Total/NA
Chrysene	910	J	1900	430	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	1500	J	1900	200	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	640	J	1900	240	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	610	J	1900	280	ug/Kg	10	☼	8270D	Total/NA
Pyrene	1300	J	1900	230	ug/Kg	10	☼	8270D	Total/NA
Aluminum	4250		11.3	5.0	mg/Kg	1	☼	6010C	Total/NA
Antimony	0.87	J	16.9	0.45	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.4	J	2.3	0.45	mg/Kg	1	☼	6010C	Total/NA
Barium	22.8		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.22	J	0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.14	J	0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	42700	B	56.5	3.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	6.4		0.56	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.3		0.56	0.056	mg/Kg	1	☼	6010C	Total/NA
Copper	4.4		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	7200	B	11.3	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	14.4		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	18100		22.6	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	194	B	0.23	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	5.2	J	5.6	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	1280		33.9	22.6	mg/Kg	1	☼	6010C	Total/NA
Sodium	226	B	158	14.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	14.2		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	34.3		2.3	0.72	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.021		0.017	0.0039	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B3S3
Lab Sample ID: 480-193741-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.8	J vs	31	5.3	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B4S1
Lab Sample ID: 480-193741-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	210	J	2100	210	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	240	J	2100	220	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	390	J	2100	220	ug/Kg	10	☼	8270D	Total/NA
Pyrene	310	J	2100	240	ug/Kg	10	☼	8270D	Total/NA
Aluminum	11900		11.8	5.2	mg/Kg	1	☼	6010C	Total/NA
Antimony	0.88	J	17.6	0.47	mg/Kg	1	☼	6010C	Total/NA
Arsenic	5.5		2.4	0.47	mg/Kg	1	☼	6010C	Total/NA
Barium	107		0.59	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	1.1		0.24	0.033	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.2		0.24	0.035	mg/Kg	1	☼	6010C	Total/NA
Calcium	55500	B	58.8	3.9	mg/Kg	1	☼	6010C	Total/NA
Chromium	14.6		0.59	0.24	mg/Kg	1	☼	6010C	Total/NA
Cobalt	5.5		0.59	0.059	mg/Kg	1	☼	6010C	Total/NA
Copper	19.7		1.2	0.25	mg/Kg	1	☼	6010C	Total/NA
Iron	13500	B	11.8	4.1	mg/Kg	1	☼	6010C	Total/NA
Lead	162		1.2	0.28	mg/Kg	1	☼	6010C	Total/NA
Magnesium	15700		23.5	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	577	B	0.24	0.038	mg/Kg	1	☼	6010C	Total/NA
Nickel	19.1		5.9	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	2600		35.3	23.5	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.2	J	4.7	0.47	mg/Kg	1	☼	6010C	Total/NA
Sodium	353	B	165	15.3	mg/Kg	1	☼	6010C	Total/NA
Vanadium	21.4		0.59	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	97.3		2.4	0.75	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.064		0.026	0.0060	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B5S1
Lab Sample ID: 480-193741-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	8610		11.6	5.1	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.5	J	17.5	0.47	mg/Kg	1	☼	6010C	Total/NA
Arsenic	5.8		2.3	0.47	mg/Kg	1	☼	6010C	Total/NA
Barium	69.3		0.58	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.46		0.23	0.033	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.68		0.23	0.035	mg/Kg	1	☼	6010C	Total/NA
Calcium	34700	B	58.2	3.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	17.5		0.58	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.3		0.58	0.058	mg/Kg	1	☼	6010C	Total/NA
Copper	32.2		1.2	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	13400	B	11.6	4.1	mg/Kg	1	☼	6010C	Total/NA
Lead	283		1.2	0.28	mg/Kg	1	☼	6010C	Total/NA
Magnesium	10600		23.3	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	447	B	0.23	0.037	mg/Kg	1	☼	6010C	Total/NA
Nickel	28.3		5.8	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	1380		34.9	23.3	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.1	J	4.7	0.47	mg/Kg	1	☼	6010C	Total/NA
Silver	0.43	J	0.70	0.23	mg/Kg	1	☼	6010C	Total/NA
Sodium	390	B	163	15.1	mg/Kg	1	☼	6010C	Total/NA
Vanadium	19.0		0.58	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	90.6		2.3	0.74	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.82		0.019	0.0043	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B6S1
Lab Sample ID: 480-193741-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	59	J	220	43	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	260		220	32	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	39	J	220	28	ug/Kg	1	☼	8270D	Total/NA
Anthracene	600		220	53	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1100		220	22	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	950		220	32	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1100		220	34	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	620		220	23	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	460		220	28	ug/Kg	1	☼	8270D	Total/NA
Carbazole	240		220	25	ug/Kg	1	☼	8270D	Total/NA
Chrysene	1100		220	48	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	200	J	220	38	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	180	J	220	25	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	2400		220	23	ug/Kg	1	☼	8270D	Total/NA
Fluorene	260		220	25	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	610		220	27	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	83	J	220	28	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	2300		220	32	ug/Kg	1	☼	8270D	Total/NA
Pyrene	2000		220	25	ug/Kg	1	☼	8270D	Total/NA
Aluminum	11800		12.5	5.5	mg/Kg	1	☼	6010C	Total/NA
Antimony	0.70	J	18.7	0.50	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.5		2.5	0.50	mg/Kg	1	☼	6010C	Total/NA
Barium	58.2		0.62	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.62		0.25	0.035	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.36		0.25	0.037	mg/Kg	1	☼	6010C	Total/NA
Calcium	14300	B	62.4	4.1	mg/Kg	1	☼	6010C	Total/NA
Chromium	16.0		0.62	0.25	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.8		0.62	0.062	mg/Kg	1	☼	6010C	Total/NA
Copper	23.2		1.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Iron	11900	B	12.5	4.4	mg/Kg	1	☼	6010C	Total/NA
Lead	158		1.2	0.30	mg/Kg	1	☼	6010C	Total/NA
Magnesium	5990		25.0	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	106	B	0.25	0.040	mg/Kg	1	☼	6010C	Total/NA
Nickel	13.6		6.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	1770		37.5	25.0	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.88	J	5.0	0.50	mg/Kg	1	☼	6010C	Total/NA
Silver	0.27	J	0.75	0.25	mg/Kg	1	☼	6010C	Total/NA
Sodium	280	B	175	16.2	mg/Kg	1	☼	6010C	Total/NA
Vanadium	21.8		0.62	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	157		2.5	0.80	mg/Kg	1	☼	6010C	Total/NA
Mercury	9.3		0.24	0.056	mg/Kg	10	☼	7471B	Total/NA

Client Sample ID: B7S1
Lab Sample ID: 480-193741-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	350	J	1100	160	ug/Kg	5	☼	8270D	Total/NA
Anthracene	740	J	1100	280	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	1600		1100	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	1400		1100	160	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	2000		1100	180	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1100		1100	120	ug/Kg	5	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: B7S1 (Continued)
Lab Sample ID: 480-193741-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	580	J	1100	150	ug/Kg	5	☼	8270D	Total/NA
Carbazole	310	J	1100	130	ug/Kg	5	☼	8270D	Total/NA
Chrysene	1600		1100	250	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	300	J	1100	200	ug/Kg	5	☼	8270D	Total/NA
Dibenzofuran	160	J	1100	130	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	4000		1100	120	ug/Kg	5	☼	8270D	Total/NA
Fluorene	300	J	1100	130	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1000	J	1100	140	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	3000		1100	160	ug/Kg	5	☼	8270D	Total/NA
Pyrene	3100		1100	130	ug/Kg	5	☼	8270D	Total/NA
Aluminum	11000		13.1	5.8	mg/Kg	1	☼	6010C	Total/NA
Antimony	2.7	J	19.7	0.52	mg/Kg	1	☼	6010C	Total/NA
Arsenic	18.8		2.6	0.52	mg/Kg	1	☼	6010C	Total/NA
Barium	410		0.66	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.62		0.26	0.037	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.81		0.26	0.039	mg/Kg	1	☼	6010C	Total/NA
Calcium	17100	B	65.6	4.3	mg/Kg	1	☼	6010C	Total/NA
Chromium	24.4		0.66	0.26	mg/Kg	1	☼	6010C	Total/NA
Cobalt	9.8		0.66	0.066	mg/Kg	1	☼	6010C	Total/NA
Copper	71.3		1.3	0.28	mg/Kg	1	☼	6010C	Total/NA
Iron	21800	B	13.1	4.6	mg/Kg	1	☼	6010C	Total/NA
Lead	932		1.3	0.31	mg/Kg	1	☼	6010C	Total/NA
Magnesium	6030		26.2	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	405	B	0.26	0.042	mg/Kg	1	☼	6010C	Total/NA
Nickel	19.6		6.6	0.30	mg/Kg	1	☼	6010C	Total/NA
Potassium	1980		39.3	26.2	mg/Kg	1	☼	6010C	Total/NA
Selenium	4.4	J	5.2	0.52	mg/Kg	1	☼	6010C	Total/NA
Silver	0.77	J	0.79	0.26	mg/Kg	1	☼	6010C	Total/NA
Sodium	421	B	184	17.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	26.3		0.66	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	430		2.6	0.84	mg/Kg	1	☼	6010C	Total/NA
Mercury	7.0		0.31	0.071	mg/Kg	10	☼	7471B	Total/NA

Client Sample ID: B8S1
Lab Sample ID: 480-193741-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	5280		12.6	5.5	mg/Kg	1	☼	6010C	Total/NA
Antimony	0.71	J	18.9	0.50	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.7		2.5	0.50	mg/Kg	1	☼	6010C	Total/NA
Barium	43.5		0.63	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.23	J	0.25	0.035	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.19	J	0.25	0.038	mg/Kg	1	☼	6010C	Total/NA
Calcium	107000	B	62.9	4.2	mg/Kg	1	☼	6010C	Total/NA
Chromium	8.3		0.63	0.25	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.4		0.63	0.063	mg/Kg	1	☼	6010C	Total/NA
Copper	11.8		1.3	0.26	mg/Kg	1	☼	6010C	Total/NA
Iron	7980	B	12.6	4.4	mg/Kg	1	☼	6010C	Total/NA
Lead	46.3		1.3	0.30	mg/Kg	1	☼	6010C	Total/NA
Magnesium	56400		25.2	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	278	B	0.25	0.040	mg/Kg	1	☼	6010C	Total/NA
Nickel	8.2		6.3	0.29	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B8S1 (Continued)
Lab Sample ID: 480-193741-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2050		37.7	25.2	mg/Kg	1	☼	6010C	Total/NA
Sodium	225	B	176	16.4	mg/Kg	1	☼	6010C	Total/NA
Vanadium	12.7		0.63	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	360		2.5	0.81	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.096		0.024	0.0055	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B9S1
Lab Sample ID: 480-193741-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	4290		11.4	5.0	mg/Kg	1	☼	6010C	Total/NA
Antimony	0.70	J	17.1	0.46	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.6		2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	23.0		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.20	J	0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.25		0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	171000	B	114	7.5	mg/Kg	2	☼	6010C	Total/NA
Chromium	9.0		0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.5		0.57	0.057	mg/Kg	1	☼	6010C	Total/NA
Copper	12.2		2.3	0.48	mg/Kg	2	☼	6010C	Total/NA
Iron	5480	B	11.4	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	44.4		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	14600		22.8	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	141	B	0.23	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	12.5		5.7	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	1150		34.2	22.8	mg/Kg	1	☼	6010C	Total/NA
Sodium	272	B	160	14.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	13.7		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	56.7		2.3	0.73	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.12		0.026	0.0059	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B10S1
Lab Sample ID: 480-193741-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	390	J	1000	150	ug/Kg	5	☼	8270D	Total/NA
Acenaphthylene	270	J	1000	130	ug/Kg	5	☼	8270D	Total/NA
Anthracene	1200		1000	260	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	3200		1000	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	2700		1000	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	3400		1000	170	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1800		1000	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	1300		1000	130	ug/Kg	5	☼	8270D	Total/NA
Carbazole	750	J	1000	120	ug/Kg	5	☼	8270D	Total/NA
Chrysene	3100		1000	230	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	590	J	1000	180	ug/Kg	5	☼	8270D	Total/NA
Dibenzofuran	310	J	1000	120	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	7200		1000	110	ug/Kg	5	☼	8270D	Total/NA
Fluorene	490	J	1000	120	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1800		1000	130	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	150	J	1000	130	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	5400		1000	150	ug/Kg	5	☼	8270D	Total/NA
Pyrene	5200		1000	120	ug/Kg	5	☼	8270D	Total/NA
Aluminum	9970		11.9	5.3	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B10S1 (Continued)
Lab Sample ID: 480-193741-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.3	J	17.9	0.48	mg/Kg	1	☼	6010C	Total/NA
Arsenic	25.2		2.4	0.48	mg/Kg	1	☼	6010C	Total/NA
Barium	289		0.60	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.72		0.24	0.033	mg/Kg	1	☼	6010C	Total/NA
Cadmium	2.1		0.24	0.036	mg/Kg	1	☼	6010C	Total/NA
Calcium	35900	B	59.7	3.9	mg/Kg	1	☼	6010C	Total/NA
Chromium	35.8		0.60	0.24	mg/Kg	1	☼	6010C	Total/NA
Cobalt	7.9		0.60	0.060	mg/Kg	1	☼	6010C	Total/NA
Copper	355		1.2	0.25	mg/Kg	1	☼	6010C	Total/NA
Iron	25300	B	11.9	4.2	mg/Kg	1	☼	6010C	Total/NA
Lead	809		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Magnesium	13600		23.9	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	374	B	0.24	0.038	mg/Kg	1	☼	6010C	Total/NA
Nickel	76.5		6.0	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	2060		35.8	23.9	mg/Kg	1	☼	6010C	Total/NA
Selenium	3.2	J	4.8	0.48	mg/Kg	1	☼	6010C	Total/NA
Silver	18.0		0.72	0.24	mg/Kg	1	☼	6010C	Total/NA
Sodium	382	B	167	15.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	30.2		0.60	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	544		2.4	0.76	mg/Kg	1	☼	6010C	Total/NA
Mercury	4.8		0.25	0.058	mg/Kg	10	☼	7471B	Total/NA

Client Sample ID: B11S1
Lab Sample ID: 480-193741-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	210	J	1000	210	ug/Kg	5	☼	8270D	Total/NA
Acenaphthene	380	J	1000	150	ug/Kg	5	☼	8270D	Total/NA
Anthracene	800	J	1000	260	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	1700		1000	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	1600		1000	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	1900		1000	160	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1400		1000	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	840	J	1000	130	ug/Kg	5	☼	8270D	Total/NA
Carbazole	480	J	1000	120	ug/Kg	5	☼	8270D	Total/NA
Chrysene	1600		1000	230	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	420	J	1000	180	ug/Kg	5	☼	8270D	Total/NA
Dibenzofuran	300	J	1000	120	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	3900		1000	110	ug/Kg	5	☼	8270D	Total/NA
Fluorene	390	J	1000	120	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1300		1000	130	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	240	J	1000	130	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	3500		1000	150	ug/Kg	5	☼	8270D	Total/NA
Pyrene	2700		1000	120	ug/Kg	5	☼	8270D	Total/NA
Aluminum	13700		12.2	5.4	mg/Kg	1	☼	6010C	Total/NA
Antimony	2.8	J	18.3	0.49	mg/Kg	1	☼	6010C	Total/NA
Arsenic	11.6		2.4	0.49	mg/Kg	1	☼	6010C	Total/NA
Barium	235		0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	1.7		0.24	0.034	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.2		0.24	0.037	mg/Kg	1	☼	6010C	Total/NA
Calcium	48500	B	60.9	4.0	mg/Kg	1	☼	6010C	Total/NA
Chromium	18.0		0.61	0.24	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B11S1 (Continued)
Lab Sample ID: 480-193741-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	5.6		0.61	0.061	mg/Kg	1	☼	6010C	Total/NA
Copper	36.4		1.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Iron	28500	B	12.2	4.3	mg/Kg	1	☼	6010C	Total/NA
Lead	183		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Magnesium	7500		24.4	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	1480	B	0.24	0.039	mg/Kg	1	☼	6010C	Total/NA
Nickel	18.6		6.1	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1940		36.6	24.4	mg/Kg	1	☼	6010C	Total/NA
Selenium	3.1	J	4.9	0.49	mg/Kg	1	☼	6010C	Total/NA
Silver	0.34	J	0.73	0.24	mg/Kg	1	☼	6010C	Total/NA
Sodium	610	B	171	15.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	23.2		0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	266		2.4	0.78	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.48		0.019	0.0045	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B12S1
Lab Sample ID: 480-193741-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	7750		11.1	4.9	mg/Kg	1	☼	6010C	Total/NA
Antimony	1.7	J	16.7	0.45	mg/Kg	1	☼	6010C	Total/NA
Arsenic	6.2		2.2	0.45	mg/Kg	1	☼	6010C	Total/NA
Barium	50.2		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.42		0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.26		0.22	0.033	mg/Kg	1	☼	6010C	Total/NA
Calcium	94700	B	55.6	3.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	10.5		0.56	0.22	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.9		0.56	0.056	mg/Kg	1	☼	6010C	Total/NA
Copper	58.6		1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Iron	10500	B	11.1	3.9	mg/Kg	1	☼	6010C	Total/NA
Lead	601		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	20600		22.3	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	302	B	0.22	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	15.2		5.6	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	1940		33.4	22.3	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.82	J	4.5	0.45	mg/Kg	1	☼	6010C	Total/NA
Sodium	344	B	156	14.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	19.7		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	83.7		2.2	0.71	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.14		0.025	0.0057	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B13S1
Lab Sample ID: 480-193741-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	8890		11.5	5.1	mg/Kg	1	☼	6010C	Total/NA
Antimony	0.94	J	17.2	0.46	mg/Kg	1	☼	6010C	Total/NA
Arsenic	5.1		2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	49.1		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.36		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.16	J	0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	94300	B	57.4	3.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	11.7		0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.9		0.57	0.057	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B13S1 (Continued)
Lab Sample ID: 480-193741-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	9.3		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	11400	B	11.5	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	13.4		1.1	0.28	mg/Kg	1	☼	6010C	Total/NA
Magnesium	15800		23.0	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	317	B	0.23	0.037	mg/Kg	1	☼	6010C	Total/NA
Nickel	13.3		5.7	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	2510		34.4	23.0	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.69	J	4.6	0.46	mg/Kg	1	☼	6010C	Total/NA
Sodium	288	B	161	14.9	mg/Kg	1	☼	6010C	Total/NA
Vanadium	20.3		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	43.9		2.3	0.73	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.017	J	0.019	0.0043	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B14S1
Lab Sample ID: 480-193741-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	790	J	3700	750	ug/Kg	20	☼	8270D	Total/NA
Acenaphthene	2800	J F1	3700	550	ug/Kg	20	☼	8270D	Total/NA
Acenaphthylene	1100	J F1	3700	480	ug/Kg	20	☼	8270D	Total/NA
Anthracene	6900	F1 F2	3700	920	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]anthracene	14000	F2	3700	370	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]pyrene	12000	F2	3700	550	ug/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene	16000	F2	3700	590	ug/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8500	F2	3700	400	ug/Kg	20	☼	8270D	Total/NA
Benzo[k]fluoranthene	5400	F1 F2	3700	480	ug/Kg	20	☼	8270D	Total/NA
Carbazole	3200	J F1	3700	440	ug/Kg	20	☼	8270D	Total/NA
Chrysene	13000	F2	3700	840	ug/Kg	20	☼	8270D	Total/NA
Dibenz(a,h)anthracene	2000	J F1	3700	660	ug/Kg	20	☼	8270D	Total/NA
Dibenzofuran	2100	J F1	3700	440	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	36000	F2	3700	400	ug/Kg	20	☼	8270D	Total/NA
Fluorene	2300	J F1	3700	440	ug/Kg	20	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	7600	F2	3700	460	ug/Kg	20	☼	8270D	Total/NA
Naphthalene	1000	J	3700	480	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	32000	F2	3700	550	ug/Kg	20	☼	8270D	Total/NA
Pyrene	29000	F2	3700	440	ug/Kg	20	☼	8270D	Total/NA
Aluminum	4500		10.5	4.6	mg/Kg	1	☼	6010C	Total/NA
Antimony	0.64	J	15.7	0.42	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.5	J	2.1	0.42	mg/Kg	1	☼	6010C	Total/NA
Barium	15.8		0.52	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.21		0.21	0.029	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.17	J	0.21	0.031	mg/Kg	1	☼	6010C	Total/NA
Calcium	41000	B	52.4	3.5	mg/Kg	1	☼	6010C	Total/NA
Chromium	6.3		0.52	0.21	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.2		0.52	0.052	mg/Kg	1	☼	6010C	Total/NA
Copper	5.6		1.0	0.22	mg/Kg	1	☼	6010C	Total/NA
Iron	6490	B	10.5	3.7	mg/Kg	1	☼	6010C	Total/NA
Lead	13.2		1.0	0.25	mg/Kg	1	☼	6010C	Total/NA
Magnesium	23200		21.0	0.97	mg/Kg	1	☼	6010C	Total/NA
Manganese	253	B	0.21	0.034	mg/Kg	1	☼	6010C	Total/NA
Nickel	5.9		5.2	0.24	mg/Kg	1	☼	6010C	Total/NA
Potassium	1260		31.4	21.0	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B14S1 (Continued)
Lab Sample ID: 480-193741-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.51	J	4.2	0.42	mg/Kg	1	☼	6010C	Total/NA
Sodium	254	B	147	13.6	mg/Kg	1	☼	6010C	Total/NA
Vanadium	11.2		0.52	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	36.5		2.1	0.67	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.027		0.021	0.0049	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B15S1
Lab Sample ID: 480-193741-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	3120		11.3	5.0	mg/Kg	1	☼	6010C	Total/NA
Antimony	0.47	J	16.9	0.45	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.5	J	2.3	0.45	mg/Kg	1	☼	6010C	Total/NA
Barium	8.8		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.15	J	0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.10	J	0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	112000	B	113	7.4	mg/Kg	2	☼	6010C	Total/NA
Chromium	5.7		0.56	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	1.4		0.56	0.056	mg/Kg	1	☼	6010C	Total/NA
Copper	4.7		2.3	0.47	mg/Kg	2	☼	6010C	Total/NA
Iron	4130	B	11.3	3.9	mg/Kg	1	☼	6010C	Total/NA
Lead	8.3		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	7810		22.6	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	88.1	B	0.23	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	5.6		5.6	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	1030		33.9	22.6	mg/Kg	1	☼	6010C	Total/NA
Sodium	183	B	158	14.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	8.6		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	35.3		2.3	0.72	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.036		0.023	0.0054	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B16S1
Lab Sample ID: 480-193741-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	7400	J	20000	2000	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	7100	J	20000	3000	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	9000	J	20000	3200	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	5000	J	20000	2100	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	3700	J	20000	2600	ug/Kg	10	☼	8270D	Total/NA
Chrysene	7700	J	20000	4500	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	18000	J	20000	2100	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	5100	J	20000	2500	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	13000	J	20000	3000	ug/Kg	10	☼	8270D	Total/NA
Pyrene	13000	J	20000	2400	ug/Kg	10	☼	8270D	Total/NA
Aluminum	9100		12.5	5.5	mg/Kg	1	☼	6010C	Total/NA
Antimony	2.6	J	18.8	0.50	mg/Kg	1	☼	6010C	Total/NA
Arsenic	7.7		2.5	0.50	mg/Kg	1	☼	6010C	Total/NA
Barium	246		0.63	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.85		0.25	0.035	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.77		0.25	0.038	mg/Kg	1	☼	6010C	Total/NA
Calcium	41900	B	62.6	4.1	mg/Kg	1	☼	6010C	Total/NA
Chromium	12.8		0.63	0.25	mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.8		0.63	0.063	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B16S1 (Continued)
Lab Sample ID: 480-193741-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	18.1		1.3	0.26	mg/Kg	1	☼	6010C	Total/NA
Iron	28900	B	12.5	4.4	mg/Kg	1	☼	6010C	Total/NA
Lead	237		1.3	0.30	mg/Kg	1	☼	6010C	Total/NA
Magnesium	12400		25.1	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	453	B	0.25	0.040	mg/Kg	1	☼	6010C	Total/NA
Nickel	12.3		6.3	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	1300		37.6	25.1	mg/Kg	1	☼	6010C	Total/NA
Selenium	3.0	J	5.0	0.50	mg/Kg	1	☼	6010C	Total/NA
Sodium	327	B	175	16.3	mg/Kg	1	☼	6010C	Total/NA
Vanadium	17.7		0.63	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	344		2.5	0.80	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.098		0.020	0.0045	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TMW1
Lab Sample ID: 480-193741-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	360		80	14	ug/L	80		8260C	Total/NA
Methylcyclohexane	810		80	13	ug/L	80		8260C	Total/NA
Xylenes, Total	99	J	160	53	ug/L	80		8260C	Total/NA
Fluoranthene	8.8	J	96	7.7	ug/L	10		8270D	Total/NA
Naphthalene	29	J	96	15	ug/L	10		8270D	Total/NA
Pyrene	7.7	J	96	6.5	ug/L	10		8270D	Total/NA

Client Sample ID: TMW2
Lab Sample ID: 480-193741-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.4	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.51	J	1.0	0.41	ug/L	1		8260C	Total/NA
Cyclohexane	1.0		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	2.0		1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	0.84	J	1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	0.71	J	2.0	0.66	ug/L	1		8260C	Total/NA

Client Sample ID: TMW3
Lab Sample ID: 480-193741-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.2	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.54	J	1.0	0.41	ug/L	1		8260C	Total/NA
Cyclohexane	0.35	J	1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.27	J	1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	0.57	J	1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: TMW4
Lab Sample ID: 480-193741-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.6	J	10	1.3	ug/L	1		8260C	Total/NA
Acetone	7.7	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.41	J	1.0	0.41	ug/L	1		8260C	Total/NA
Cyclohexane	0.21	J	1.0	0.18	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B1S2
Lab Sample ID: 480-193741-1
Date Collected: 12/21/21 09:00
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 82.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2500	U	2500	700	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
1,1,2,2-Tetrachloroethane	2500	U	2500	410	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	U	2500	1300	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
1,1,2-Trichloroethane	2500	U	2500	530	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
1,1-Dichloroethane	2500	U	2500	780	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
1,1-Dichloroethene	2500	U	2500	880	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
1,2,4-Trichlorobenzene	2500	U	2500	960	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
1,2-Dibromo-3-Chloropropane	2500	U	2500	1300	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
1,2-Dichlorobenzene	2500	U	2500	650	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
1,2-Dichloroethane	2500	U	2500	1000	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
1,2-Dichloropropane	2500	U	2500	410	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
1,3-Dichlorobenzene	2500	U	2500	680	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
1,4-Dichlorobenzene	2500	U	2500	360	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
2-Butanone (MEK)	13000	U	13000	7500	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
2-Hexanone	13000	U	13000	5200	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
4-Methyl-2-pentanone (MIBK)	13000	U	13000	810	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Acetone	13000	U	13000	10000	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Benzene	2500	U	2500	480	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Bromoform	2500	U	2500	1300	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Bromomethane	2500	U	2500	560	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Carbon disulfide	2500	U	2500	1200	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Carbon tetrachloride	2500	U	2500	650	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Chlorobenzene	2500	U	2500	330	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Dibromochloromethane	2500	U	2500	1200	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Chloroethane	2500	U	2500	530	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Chloroform	2500	U	2500	1700	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Chloromethane	2500	U	2500	600	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
cis-1,2-Dichloroethene	2500	U	2500	700	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Cyclohexane	2500	U	2500	560	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Bromodichloromethane	2500	U	2500	510	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Dichlorodifluoromethane	2500	U	2500	1100	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Ethylbenzene	2500	U	2500	740	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
1,2-Dibromoethane	2500	U	2500	440	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Isopropylbenzene	**1000**	**J**	2500	380	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Methyl acetate	13000	U	13000	1200	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Methyl tert-butyl ether	2500	U	2500	960	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Methylcyclohexane	**17000**		2500	1200	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Methylene Chloride	2500	U	2500	500	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Tetrachloroethene	2500	U	2500	340	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Toluene	2500	U	2500	680	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
trans-1,2-Dichloroethene	2500	U	2500	600	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
trans-1,3-Dichloropropene	2500	U	2500	250	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Trichloroethene	2500	U	2500	710	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Trichlorofluoromethane	2500	U	2500	1200	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Vinyl chloride	2500	U	2500	850	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Xylenes, Total	**1400**	**J**	5100	1400	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
cis-1,3-Dichloropropene	2500	U	2500	610	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20
Styrene	2500	U	2500	610	ug/Kg	☼	12/28/21 11:44	12/29/21 11:58	20

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B1S2
Lab Sample ID: 480-193741-1
Date Collected: 12/21/21 09:00
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 82.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*102*		*53 - 146*	*12/28/21 11:44*	*12/29/21 11:58*	*20*
4-Bromofluorobenzene (Surr)	*92*		*49 - 148*	*12/28/21 11:44*	*12/29/21 11:58*	*20*
Toluene-d8 (Surr)	*89*		*50 - 149*	*12/28/21 11:44*	*12/29/21 11:58*	*20*
Dibromofluoromethane (Surr)	*96*		*60 - 140*	*12/28/21 11:44*	*12/29/21 11:58*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	1000	U	1000	280	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
2,4,6-Trichlorophenol	1000	U	1000	200	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
2,4-Dichlorophenol	1000	U	1000	110	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
2,4-Dimethylphenol	1000	U	1000	250	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
2,4-Dinitrophenol	10000	U	10000	4700	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
2,4-Dinitrotoluene	1000	U	1000	210	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
2,6-Dinitrotoluene	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
2-Chloronaphthalene	1000	U	1000	170	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
2-Chlorophenol	2000	U	2000	190	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
2-Methylnaphthalene	1000	U	1000	200	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
2-Methylphenol	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
2-Nitroaniline	2000	U	2000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
2-Nitrophenol	1000	U	1000	290	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
3,3'-Dichlorobenzidine	2000	U	2000	1200	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
3-Nitroaniline	2000	U	2000	280	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
4,6-Dinitro-2-methylphenol	2000	U	2000	1000	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
4-Bromophenyl phenyl ether	1000	U	1000	140	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
4-Chloro-3-methylphenol	1000	U	1000	250	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
4-Chloroaniline	1000	U	1000	250	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
4-Chlorophenyl phenyl ether	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
4-Methylphenol	2000	U	2000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
4-Nitroaniline	2000	U	2000	540	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
4-Nitrophenol	2000	U	2000	720	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Acenaphthene	1000	U	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Acenaphthylene	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Acetophenone	1000	U	1000	140	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Anthracene	1000	U	1000	250	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Atrazine	1000	U	1000	360	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Benzaldehyde	1000	U	1000	810	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Benzo[a]anthracene	1000	U	1000	100	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Benzo[a]pyrene	1000	U	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Benzo[b]fluoranthene	1000	U	1000	160	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Benzo[g,h,i]perylene	1000	U	1000	110	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Benzo[k]fluoranthene	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Biphenyl	1000	U	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
bis (2-chloroisopropyl) ether	1000	U	1000	200	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Bis(2-chloroethoxy)methane	1000	U	1000	220	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Bis(2-chloroethyl)ether	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Bis(2-ethylhexyl) phthalate	1000	U	1000	350	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Butyl benzyl phthalate	1000	U	1000	170	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Caprolactam	1000	U	1000	310	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Carbazole	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Chrysene	1000	U	1000	230	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5

Client Sample ID: B1S2
Lab Sample ID: 480-193741-1
Date Collected: 12/21/21 09:00
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 82.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	1000	U	1000	180	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Dibenzofuran	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Diethyl phthalate	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Dimethyl phthalate	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Di-n-butyl phthalate	1000	U	1000	170	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Di-n-octyl phthalate	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Fluoranthene	**220**	**J**	1000	110	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Fluorene	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Hexachlorobenzene	1000	U	1000	140	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Hexachlorobutadiene	1000	U	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Hexachlorocyclopentadiene	1000	U	1000	140	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Hexachloroethane	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Indeno[1,2,3-cd]pyrene	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Isophorone	1000	U	1000	220	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Naphthalene	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Nitrobenzene	1000	U	1000	110	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
N-Nitrosodi-n-propylamine	1000	U	1000	170	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
N-Nitrosodiphenylamine	1000	U	1000	830	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Pentachlorophenol	2000	U	2000	1000	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Phenanthrene	**170**	**J**	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Phenol	1000	U	1000	160	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5
Pyrene	**170**	**J**	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 12:57	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*54 - 120*	*12/30/21 07:58*	*01/04/22 12:57*	*5*
2-Fluorobiphenyl (Surr)	*101*		*60 - 120*	*12/30/21 07:58*	*01/04/22 12:57*	*5*
2-Fluorophenol (Surr)	*78*		*52 - 120*	*12/30/21 07:58*	*01/04/22 12:57*	*5*
Nitrobenzene-d5 (Surr)	*82*		*53 - 120*	*12/30/21 07:58*	*01/04/22 12:57*	*5*
Phenol-d5 (Surr)	*84*		*54 - 120*	*12/30/21 07:58*	*01/04/22 12:57*	*5*
p-Terphenyl-d14 (Surr)	*106*		*79 - 130*	*12/30/21 07:58*	*01/04/22 12:57*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9580**	**F1**	12.5	5.5	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Antimony	**1.3**	**J F1**	18.8	0.50	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Arsenic	**4.8**		2.5	0.50	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Barium	**79.4**	**F1**	0.63	0.14	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Beryllium	**0.51**		0.25	0.035	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Cadmium	**0.31**		0.25	0.038	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Calcium	**56700**	**F2 B**	62.7	4.1	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Chromium	**14.6**		0.63	0.25	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Cobalt	**5.6**		0.63	0.063	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Copper	**17.1**		1.3	0.26	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Iron	**14300**	**F2 B**	12.5	4.4	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Lead	**576**	**F2**	1.3	0.30	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Magnesium	**7430**	**F1 F2**	25.1	1.2	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Manganese	**380**	**F2 B**	0.25	0.040	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Nickel	**14.9**		6.3	0.29	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Potassium	**2390**	**F1 F2**	37.6	25.1	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Selenium	**1.3**	**J**	5.0	0.50	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1

Client Sample ID: B1S2

Lab Sample ID: 480-193741-1
Date Collected: 12/21/21 09:00
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 82.9

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.75	U	0.75	0.25	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Sodium	**380**	**B**	175	16.3	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Thallium	7.5	U	7.5	0.38	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Vanadium	**22.4**		0.63	0.14	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1
Zinc	**103**	**F1 F2**	2.5	0.80	mg/Kg	☼	12/27/21 14:21	12/28/21 17:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.067**		0.022	0.0051	mg/Kg	☼	12/30/21 13:32	12/30/21 14:41	1

Client Sample ID: B1S3

Lab Sample ID: 480-193741-2
Date Collected: 12/21/21 09:15
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 79.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6800	U	6800	1900	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
1,1,2,2-Tetrachloroethane	6800	U	6800	1100	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
1,1,2-Trichloro-1,2,2-trifluoroethane	6800	U	6800	3400	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
1,1,2-Trichloroethane	6800	U	6800	1400	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
1,1-Dichloroethane	6800	U	6800	2100	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
1,1-Dichloroethene	6800	U	6800	2300	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
1,2,4-Trichlorobenzene	6800	U	6800	2600	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
1,2-Dibromo-3-Chloropropane	6800	U	6800	3400	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
1,2-Dichlorobenzene	6800	U	6800	1700	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
1,2-Dichloroethane	6800	U	6800	2800	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
1,2-Dichloropropane	6800	U	6800	1100	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
1,3-Dichlorobenzene	6800	U	6800	1800	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
1,4-Dichlorobenzene	6800	U	6800	950	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
2-Butanone (MEK)	34000	U	34000	20000	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
2-Hexanone	34000	U	34000	14000	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
4-Methyl-2-pentanone (MIBK)	34000	U	34000	2200	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Acetone	34000	U	34000	28000	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Benzene	6800	U	6800	1300	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Bromoform	6800	U	6800	3400	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Bromomethane	6800	U	6800	1500	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Carbon disulfide	6800	U	6800	3100	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Carbon tetrachloride	6800	U	6800	1700	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Chlorobenzene	6800	U	6800	900	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Dibromochloromethane	6800	U	6800	3300	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Chloroethane	6800	U	6800	1400	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Chloroform	6800	U	6800	4700	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Chloromethane	6800	U	6800	1600	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
cis-1,2-Dichloroethene	6800	U	6800	1900	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Cyclohexane	6800	U	6800	1500	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Bromodichloromethane	6800	U	6800	1400	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Dichlorodifluoromethane	6800	U	6800	3000	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Ethylbenzene	6800	U	6800	2000	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
1,2-Dibromoethane	6800	U	6800	1200	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Isopropylbenzene	**2100**	**J**	6800	1000	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50

Client Sample ID: B1S3

Lab Sample ID: 480-193741-2

Date Collected: 12/21/21 09:15
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 79.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	34000	U	34000	3200	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Methyl tert-butyl ether	6800	U	6800	2600	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Methylcyclohexane	**59000**		6800	3200	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Methylene Chloride	6800	U	6800	1300	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Tetrachloroethene	6800	U	6800	910	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Toluene	6800	U	6800	1800	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
trans-1,2-Dichloroethene	6800	U	6800	1600	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
trans-1,3-Dichloropropene	6800	U	6800	670	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Trichloroethene	6800	U	6800	1900	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Trichlorofluoromethane	6800	U	6800	3200	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Vinyl chloride	6800	U	6800	2300	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Xylenes, Total	14000	U	14000	3800	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
cis-1,3-Dichloropropene	6800	U	6800	1600	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50
Styrene	6800	U	6800	1600	ug/Kg	☼	12/28/21 11:44	12/29/21 12:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*53 - 146*	*12/28/21 11:44*	*12/29/21 12:22*	*50*
4-Bromofluorobenzene (Surr)	*88*		*49 - 148*	*12/28/21 11:44*	*12/29/21 12:22*	*50*
Toluene-d8 (Surr)	*86*		*50 - 149*	*12/28/21 11:44*	*12/29/21 12:22*	*50*
Dibromofluoromethane (Surr)	*95*		*60 - 140*	*12/28/21 11:44*	*12/29/21 12:22*	*50*

Client Sample ID: B2S2

Lab Sample ID: 480-193741-3

Date Collected: 12/21/21 09:35
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 82.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.9	U vs	5.9	0.43	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
1,1,2,2-Tetrachloroethane	5.9	U vs	5.9	0.95	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.9	U vs	5.9	1.3	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
1,1,2-Trichloroethane	5.9	U vs	5.9	0.76	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
1,1-Dichloroethane	5.9	U vs	5.9	0.72	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
1,1-Dichloroethene	5.9	U vs	5.9	0.72	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
1,2,4-Trichlorobenzene	5.9	U vs	5.9	0.36	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
1,2-Dibromo-3-Chloropropane	5.9	U vs	5.9	2.9	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
1,2-Dibromoethane	5.9	U vs	5.9	0.75	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
1,2-Dichlorobenzene	5.9	U vs	5.9	0.46	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
1,2-Dichloroethane	5.9	U vs	5.9	0.29	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
1,2-Dichloropropane	5.9	U vs	5.9	2.9	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
1,3-Dichlorobenzene	5.9	U vs	5.9	0.30	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
1,4-Dichlorobenzene	5.9	U vs	5.9	0.82	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
2-Butanone (MEK)	29	U vs *+	29	2.2	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
2-Hexanone	29	U vs	29	2.9	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
4-Methyl-2-pentanone (MIBK)	29	U vs	29	1.9	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Acetone	**9.6**	**J vs**	29	4.9	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Benzene	5.9	U vs	5.9	0.29	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Bromodichloromethane	5.9	U vs	5.9	0.79	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Bromoform	5.9	U vs	5.9	2.9	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Bromomethane	5.9	U vs	5.9	0.53	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Carbon disulfide	5.9	U vs	5.9	2.9	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B2S2
Lab Sample ID: 480-193741-3
Date Collected: 12/21/21 09:35
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 82.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	5.9	U vs	5.9	0.57	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Chlorobenzene	5.9	U vs	5.9	0.78	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Chloroethane	5.9	U vs	5.9	1.3	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Chloroform	5.9	U vs	5.9	0.36	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Chloromethane	5.9	U vs	5.9	0.35	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
cis-1,2-Dichloroethene	5.9	U vs	5.9	0.75	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
cis-1,3-Dichloropropene	5.9	U vs	5.9	0.85	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Cyclohexane	5.9	U vs	5.9	0.82	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Dibromochloromethane	5.9	U vs	5.9	0.75	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Dichlorodifluoromethane	5.9	U vs	5.9	0.49	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Ethylbenzene	5.9	U vs	5.9	0.41	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Isopropylbenzene	5.9	U vs	5.9	0.89	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Methyl acetate	29	U vs	29	3.5	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Methyl tert-butyl ether	5.9	U vs	5.9	0.58	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Methylcyclohexane	5.9	U vs	5.9	0.89	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Methylene Chloride	5.9	U vs	5.9	2.7	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Styrene	5.9	U vs	5.9	0.29	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Tetrachloroethene	5.9	U vs	5.9	0.79	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Toluene	5.9	U vs	5.9	0.44	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
trans-1,2-Dichloroethene	5.9	U vs	5.9	0.61	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
trans-1,3-Dichloropropene	5.9	U vs	5.9	2.6	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Trichloroethene	5.9	U vs	5.9	1.3	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Trichlorofluoromethane	5.9	U vs	5.9	0.56	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Vinyl chloride	5.9	U vs	5.9	0.72	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1
Xylenes, Total	**1.3**	**J vs**	12	0.99	ug/Kg	☼	12/26/21 06:11	12/26/21 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*64 - 126*	*12/26/21 06:11*	*12/26/21 18:30*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*	*12/26/21 06:11*	*12/26/21 18:30*	*1*
Dibromofluoromethane (Surr)	*114*		*60 - 140*	*12/26/21 06:11*	*12/26/21 18:30*	*1*
Toluene-d8 (Surr)	*100*		*71 - 125*	*12/26/21 06:11*	*12/26/21 18:30*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	20000	U	20000	5500	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
2,4,6-Trichlorophenol	20000	U	20000	4100	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
2,4-Dichlorophenol	20000	U	20000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
2,4-Dimethylphenol	20000	U	20000	4900	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
2,4-Dinitrophenol	200000	U	200000	94000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
2,4-Dinitrotoluene	20000	U	20000	4200	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
2,6-Dinitrotoluene	20000	U	20000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
2-Chloronaphthalene	20000	U	20000	3400	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
2-Chlorophenol	40000	U	40000	3700	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
2-Methylnaphthalene	20000	U	20000	4100	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
2-Methylphenol	20000	U	20000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
2-Nitroaniline	40000	U	40000	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
2-Nitrophenol	20000	U	20000	5800	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
3,3'-Dichlorobenzidine	40000	U	40000	24000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
3-Nitroaniline	40000	U	40000	5600	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
4,6-Dinitro-2-methylphenol	40000	U	40000	20000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B2S2
Lab Sample ID: 480-193741-3
Date Collected: 12/21/21 09:35
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 82.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	20000	U	20000	2900	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
4-Chloro-3-methylphenol	20000	U	20000	5000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
4-Chloroaniline	20000	U	20000	5000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
4-Chlorophenyl phenyl ether	20000	U	20000	2500	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
4-Methylphenol	40000	U	40000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
4-Nitroaniline	40000	U	40000	11000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
4-Nitrophenol	40000	U	40000	14000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Acenaphthene	20000	U	20000	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Acenaphthylene	20000	U	20000	2600	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Acetophenone	20000	U	20000	2800	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Anthracene	20000	U	20000	5000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Atrazine	20000	U	20000	7100	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Benzaldehyde	20000	U	20000	16000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Benzo[a]anthracene	20000	U	20000	2000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Benzo[a]pyrene	20000	U	20000	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Benzo[b]fluoranthene	20000	U	20000	3200	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Benzo[g,h,i]perylene	20000	U	20000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Benzo[k]fluoranthene	20000	U	20000	2600	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Biphenyl	20000	U	20000	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
bis (2-chloroisopropyl) ether	20000	U	20000	4100	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Bis(2-chloroethoxy)methane	20000	U	20000	4300	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Bis(2-chloroethyl)ether	20000	U	20000	2600	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Bis(2-ethylhexyl) phthalate	20000	U	20000	7000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Butyl benzyl phthalate	20000	U	20000	3400	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Caprolactam	20000	U	20000	6100	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Carbazole	20000	U	20000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Chrysene	20000	U	20000	4600	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Dibenz(a,h)anthracene	20000	U	20000	3600	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Dibenzofuran	20000	U	20000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Diethyl phthalate	20000	U	20000	2600	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Dimethyl phthalate	20000	U	20000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Di-n-butyl phthalate	20000	U	20000	3500	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Di-n-octyl phthalate	20000	U	20000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Fluoranthene	**3400**	**J**	20000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Fluorene	20000	U	20000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Hexachlorobenzene	20000	U	20000	2800	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Hexachlorobutadiene	20000	U	20000	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Hexachlorocyclopentadiene	20000	U	20000	2800	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Hexachloroethane	20000	U	20000	2600	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Indeno[1,2,3-cd]pyrene	20000	U	20000	2500	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Isophorone	20000	U	20000	4300	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Naphthalene	20000	U	20000	2600	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Nitrobenzene	20000	U	20000	2300	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
N-Nitrosodi-n-propylamine	20000	U	20000	3500	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
N-Nitrosodiphenylamine	20000	U	20000	17000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Pentachlorophenol	40000	U	40000	20000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Phenanthrene	20000	U	20000	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Phenol	20000	U	20000	3100	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10
Pyrene	**2900**	**J**	20000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 13:21	10

Client Sample ID: B2S2

Lab Sample ID: 480-193741-3

Date Collected: 12/21/21 09:35
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 82.9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*54 - 120*	*12/30/21 07:58*	*01/04/22 13:21*	*10*
2-Fluorobiphenyl (Surr)	*97*		*60 - 120*	*12/30/21 07:58*	*01/04/22 13:21*	*10*
2-Fluorophenol (Surr)	*0*	*S1-*	*52 - 120*	*12/30/21 07:58*	*01/04/22 13:21*	*10*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*53 - 120*	*12/30/21 07:58*	*01/04/22 13:21*	*10*
Phenol-d5 (Surr)	*0*	*S1-*	*54 - 120*	*12/30/21 07:58*	*01/04/22 13:21*	*10*
p-Terphenyl-d14 (Surr)	*108*		*79 - 130*	*12/30/21 07:58*	*01/04/22 13:21*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11300**		12.2	5.4	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Antimony	**8.9**	**J**	18.3	0.49	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Arsenic	**10.4**		2.4	0.49	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Barium	**264**		0.61	0.13	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Beryllium	**0.76**		0.24	0.034	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Cadmium	**0.82**		0.24	0.037	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Calcium	**77100**	**B**	61.0	4.0	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Chromium	**81.5**		0.61	0.24	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Cobalt	**6.6**		0.61	0.061	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Copper	**42.1**		1.2	0.26	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Iron	**30000**	**B**	12.2	4.3	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Lead	**497**		1.2	0.29	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Magnesium	**9190**		24.4	1.1	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Manganese	**2120**	**B**	0.24	0.039	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Nickel	**22.6**		6.1	0.28	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Potassium	**1710**		36.6	24.4	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Selenium	**3.2**	**J**	4.9	0.49	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Silver	**0.53**	**J**	0.73	0.24	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Sodium	**383**	**B**	171	15.9	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Thallium	7.3	U	7.3	0.37	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Vanadium	**48.7**		0.61	0.13	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1
Zinc	**230**		2.4	0.78	mg/Kg	☼	12/27/21 14:21	12/28/21 17:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.23**		0.021	0.0048	mg/Kg	☼	12/30/21 13:32	12/30/21 14:46	1

Client Sample ID: B3S1

Lab Sample ID: 480-193741-4

Date Collected: 12/21/21 09:55
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	1900	U	1900	520	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
2,4,6-Trichlorophenol	1900	U	1900	380	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
2,4-Dichlorophenol	1900	U	1900	200	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
2,4-Dimethylphenol	1900	U	1900	460	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
2,4-Dinitrophenol	19000	U	19000	8800	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
2,4-Dinitrotoluene	1900	U	1900	390	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
2,6-Dinitrotoluene	1900	U	1900	230	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
2-Chloronaphthalene	1900	U	1900	320	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
2-Chlorophenol	3700	U	3700	350	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B3S1
Lab Sample ID: 480-193741-4
Date Collected: 12/21/21 09:55
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	1900	U	1900	380	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
2-Methylphenol	1900	U	1900	230	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
2-Nitroaniline	3700	U	3700	280	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
2-Nitrophenol	1900	U	1900	540	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
3,3'-Dichlorobenzidine	3700	U	3700	2300	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
3-Nitroaniline	3700	U	3700	530	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
4,6-Dinitro-2-methylphenol	3700	U	3700	1900	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
4-Bromophenyl phenyl ether	1900	U	1900	270	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
4-Chloro-3-methylphenol	1900	U	1900	470	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
4-Chloroaniline	1900	U	1900	470	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
4-Chlorophenyl phenyl ether	1900	U	1900	240	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
4-Methylphenol	3700	U	3700	230	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
4-Nitroaniline	3700	U	3700	1000	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
4-Nitrophenol	3700	U	3700	1300	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Acenaphthene	1900	U	1900	280	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Acenaphthylene	1900	U	1900	250	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Acetophenone	1900	U	1900	260	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Anthracene	1900	U	1900	470	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Atrazine	1900	U	1900	670	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Benzaldehyde	1900	U	1900	1500	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Benzo[a]anthracene	**870**	**J**	1900	190	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Benzo[a]pyrene	**910**	**J**	1900	280	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Benzo[b]fluoranthene	**1200**	**J**	1900	300	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Benzo[g,h,i]perylene	**760**	**J**	1900	200	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Benzo[k]fluoranthene	**410**	**J**	1900	250	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Biphenyl	1900	U	1900	280	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
bis (2-chloroisopropyl) ether	1900	U	1900	380	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Bis(2-chloroethoxy)methane	1900	U	1900	410	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Bis(2-chloroethyl)ether	1900	U	1900	250	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Bis(2-ethylhexyl) phthalate	1900	U	1900	650	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Butyl benzyl phthalate	1900	U	1900	320	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Caprolactam	1900	U	1900	580	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Carbazole	1900	U	1900	230	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Chrysene	**910**	**J**	1900	430	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Dibenz(a,h)anthracene	1900	U	1900	340	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Dibenzofuran	1900	U	1900	230	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Diethyl phthalate	1900	U	1900	250	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Dimethyl phthalate	1900	U	1900	230	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Di-n-butyl phthalate	1900	U	1900	330	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Di-n-octyl phthalate	1900	U	1900	230	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Fluoranthene	**1500**	**J**	1900	200	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Fluorene	1900	U	1900	230	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Hexachlorobenzene	1900	U	1900	260	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Hexachlorobutadiene	1900	U	1900	280	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Hexachlorocyclopentadiene	1900	U	1900	260	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Hexachloroethane	1900	U	1900	250	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Indeno[1,2,3-cd]pyrene	**640**	**J**	1900	240	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Isophorone	1900	U	1900	410	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Naphthalene	1900	U	1900	250	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B3S1
Lab Sample ID: 480-193741-4
Date Collected: 12/21/21 09:55
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	1900	U	1900	210	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
N-Nitrosodi-n-propylamine	1900	U	1900	330	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
N-Nitrosodiphenylamine	1900	U	1900	1600	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Pentachlorophenol	3700	U	3700	1900	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Phenanthrene	**610**	**J**	1900	280	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Phenol	1900	U	1900	290	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10
Pyrene	**1300**	**J**	1900	230	ug/Kg	☼	12/30/21 07:58	01/04/22 13:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*54 - 120*	*12/30/21 07:58*	*01/04/22 13:45*	*10*
2-Fluorobiphenyl (Surr)	*88*		*60 - 120*	*12/30/21 07:58*	*01/04/22 13:45*	*10*
2-Fluorophenol (Surr)	*68*		*52 - 120*	*12/30/21 07:58*	*01/04/22 13:45*	*10*
Nitrobenzene-d5 (Surr)	*69*		*53 - 120*	*12/30/21 07:58*	*01/04/22 13:45*	*10*
Phenol-d5 (Surr)	*72*		*54 - 120*	*12/30/21 07:58*	*01/04/22 13:45*	*10*
p-Terphenyl-d14 (Surr)	*90*		*79 - 130*	*12/30/21 07:58*	*01/04/22 13:45*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4250**		11.3	5.0	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Antimony	**0.87**	**J**	16.9	0.45	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Arsenic	**1.4**	**J**	2.3	0.45	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Barium	**22.8**		0.56	0.12	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Beryllium	**0.22**	**J**	0.23	0.032	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Cadmium	**0.14**	**J**	0.23	0.034	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Calcium	**42700**	**B**	56.5	3.7	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Chromium	**6.4**		0.56	0.23	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Cobalt	**2.3**		0.56	0.056	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Copper	**4.4**		1.1	0.24	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Iron	**7200**	**B**	11.3	4.0	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Lead	**14.4**		1.1	0.27	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Magnesium	**18100**		22.6	1.0	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Manganese	**194**	**B**	0.23	0.036	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Nickel	**5.2**	**J**	5.6	0.26	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Potassium	**1280**		33.9	22.6	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Selenium	4.5	U	4.5	0.45	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Silver	0.68	U	0.68	0.23	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Sodium	**226**	**B**	158	14.7	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Thallium	6.8	U	6.8	0.34	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Vanadium	**14.2**		0.56	0.12	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1
Zinc	**34.3**		2.3	0.72	mg/Kg	☼	12/27/21 14:21	12/28/21 18:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**		0.017	0.0039	mg/Kg	☼	12/30/21 13:32	12/30/21 14:50	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B3S3
Lab Sample ID: 480-193741-5
Date Collected: 12/21/21 10:10
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 79.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.3	U vs	6.3	0.46	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
1,1,2,2-Tetrachloroethane	6.3	U vs	6.3	1.0	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	6.3	U vs	6.3	1.4	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
1,1,2-Trichloroethane	6.3	U vs	6.3	0.82	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
1,1-Dichloroethane	6.3	U vs	6.3	0.77	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
1,1-Dichloroethene	6.3	U vs	6.3	0.77	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
1,2,4-Trichlorobenzene	6.3	U vs	6.3	0.38	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
1,2-Dibromo-3-Chloropropane	6.3	U vs	6.3	3.1	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
1,2-Dibromoethane	6.3	U vs	6.3	0.81	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
1,2-Dichlorobenzene	6.3	U vs	6.3	0.49	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
1,2-Dichloroethane	6.3	U vs	6.3	0.32	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
1,2-Dichloropropane	6.3	U vs	6.3	3.1	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
1,3-Dichlorobenzene	6.3	U vs	6.3	0.32	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
1,4-Dichlorobenzene	6.3	U vs	6.3	0.88	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
2-Butanone (MEK)	31	U vs *+	31	2.3	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
2-Hexanone	31	U vs	31	3.1	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
4-Methyl-2-pentanone (MIBK)	31	U vs	31	2.1	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Acetone	**9.8**	**J vs**	31	5.3	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Benzene	6.3	U vs	6.3	0.31	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Bromodichloromethane	6.3	U vs	6.3	0.84	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Bromoform	6.3	U vs	6.3	3.1	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Bromomethane	6.3	U vs	6.3	0.57	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Carbon disulfide	6.3	U vs	6.3	3.1	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Carbon tetrachloride	6.3	U vs	6.3	0.61	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Chlorobenzene	6.3	U vs	6.3	0.83	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Chloroethane	6.3	U vs	6.3	1.4	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Chloroform	6.3	U vs	6.3	0.39	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Chloromethane	6.3	U vs	6.3	0.38	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
cis-1,2-Dichloroethene	6.3	U vs	6.3	0.80	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
cis-1,3-Dichloropropene	6.3	U vs	6.3	0.91	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Cyclohexane	6.3	U vs	6.3	0.88	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Dibromochloromethane	6.3	U vs	6.3	0.80	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Dichlorodifluoromethane	6.3	U vs	6.3	0.52	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Ethylbenzene	6.3	U vs	6.3	0.43	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Isopropylbenzene	6.3	U vs	6.3	0.95	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Methyl acetate	31	U vs	31	3.8	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Methyl tert-butyl ether	6.3	U vs	6.3	0.62	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Methylcyclohexane	6.3	U vs	6.3	0.96	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Methylene Chloride	6.3	U vs	6.3	2.9	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Styrene	6.3	U vs	6.3	0.31	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Tetrachloroethene	6.3	U vs	6.3	0.84	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Toluene	6.3	U vs	6.3	0.48	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
trans-1,2-Dichloroethene	6.3	U vs	6.3	0.65	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
trans-1,3-Dichloropropene	6.3	U vs	6.3	2.8	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Trichloroethene	6.3	U vs	6.3	1.4	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Trichlorofluoromethane	6.3	U vs	6.3	0.59	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Vinyl chloride	6.3	U vs	6.3	0.77	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1
Xylenes, Total	13	U vs	13	1.1	ug/Kg	☼	12/26/21 06:11	12/26/21 18:55	1

Client Sample ID: B3S3

Lab Sample ID: 480-193741-5
Date Collected: 12/21/21 10:10
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 79.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 126*	*12/26/21 06:11*	*12/26/21 18:55*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 126*	*12/26/21 06:11*	*12/26/21 18:55*	*1*
Dibromofluoromethane (Surr)	*113*		*60 - 140*	*12/26/21 06:11*	*12/26/21 18:55*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*12/26/21 06:11*	*12/26/21 18:55*	*1*

Client Sample ID: B4S1

Lab Sample ID: 480-193741-6
Date Collected: 12/21/21 10:15
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	2100	U	2100	560	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
2,4,6-Trichlorophenol	2100	U	2100	410	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
2,4-Dichlorophenol	2100	U	2100	220	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
2,4-Dimethylphenol	2100	U	2100	500	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
2,4-Dinitrophenol	20000	U	20000	9500	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
2,4-Dinitrotoluene	2100	U	2100	430	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
2,6-Dinitrotoluene	2100	U	2100	240	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
2-Chloronaphthalene	2100	U	2100	340	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
2-Chlorophenol	4000	U	4000	380	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
2-Methylnaphthalene	2100	U	2100	410	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
2-Methylphenol	2100	U	2100	240	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
2-Nitroaniline	4000	U	4000	300	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
2-Nitrophenol	2100	U	2100	580	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
3,3'-Dichlorobenzidine	4000	U	4000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
3-Nitroaniline	4000	U	4000	570	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
4,6-Dinitro-2-methylphenol	4000	U	4000	2100	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
4-Bromophenyl phenyl ether	2100	U	2100	290	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
4-Chloro-3-methylphenol	2100	U	2100	510	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
4-Chloroaniline	2100	U	2100	510	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
4-Chlorophenyl phenyl ether	2100	U	2100	260	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
4-Methylphenol	4000	U	4000	240	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
4-Nitroaniline	4000	U	4000	1100	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
4-Nitrophenol	4000	U	4000	1400	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Acenaphthene	2100	U	2100	300	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Acenaphthylene	2100	U	2100	270	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Acetophenone	2100	U	2100	280	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Anthracene	2100	U	2100	510	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Atrazine	2100	U	2100	720	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Benzaldehyde	2100	U	2100	1600	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Benzo[a]anthracene	**210**	**J**	2100	210	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Benzo[a]pyrene	2100	U	2100	300	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Benzo[b]fluoranthene	2100	U	2100	330	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Benzo[g,h,i]perylene	**240**	**J**	2100	220	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Benzo[k]fluoranthene	2100	U	2100	270	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Biphenyl	2100	U	2100	300	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
bis (2-chloroisopropyl) ether	2100	U	2100	410	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Bis(2-chloroethoxy)methane	2100	U	2100	440	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Bis(2-chloroethyl)ether	2100	U	2100	270	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Bis(2-ethylhexyl) phthalate	2100	U	2100	700	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B4S1
Lab Sample ID: 480-193741-6
Date Collected: 12/21/21 10:15
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	2100	U	2100	340	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Caprolactam	2100	U	2100	620	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Carbazole	2100	U	2100	240	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Chrysene	2100	U	2100	460	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Dibenz(a,h)anthracene	2100	U	2100	360	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Dibenzofuran	2100	U	2100	240	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Diethyl phthalate	2100	U	2100	270	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Dimethyl phthalate	2100	U	2100	240	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Di-n-butyl phthalate	2100	U	2100	350	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Di-n-octyl phthalate	2100	U	2100	240	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Fluoranthene	**390**	**J**	2100	220	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Fluorene	2100	U	2100	240	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Hexachlorobenzene	2100	U	2100	280	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Hexachlorobutadiene	2100	U	2100	300	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Hexachlorocyclopentadiene	2100	U	2100	280	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Hexachloroethane	2100	U	2100	270	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Indeno[1,2,3-cd]pyrene	2100	U	2100	260	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Isophorone	2100	U	2100	440	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Naphthalene	2100	U	2100	270	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Nitrobenzene	2100	U	2100	230	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
N-Nitrosodi-n-propylamine	2100	U	2100	350	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
N-Nitrosodiphenylamine	2100	U	2100	1700	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Pentachlorophenol	4000	U	4000	2100	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Phenanthrene	2100	U	2100	300	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Phenol	2100	U	2100	320	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10
Pyrene	**310**	**J**	2100	240	ug/Kg	☼	12/30/21 07:58	01/04/22 14:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*96*		*54 - 120*	*12/30/21 07:58*	*01/04/22 14:10*	*10*
2-Fluorobiphenyl (Surr)	*104*		*60 - 120*	*12/30/21 07:58*	*01/04/22 14:10*	*10*
2-Fluorophenol (Surr)	*82*		*52 - 120*	*12/30/21 07:58*	*01/04/22 14:10*	*10*
Nitrobenzene-d5 (Surr)	*80*		*53 - 120*	*12/30/21 07:58*	*01/04/22 14:10*	*10*
Phenol-d5 (Surr)	*87*		*54 - 120*	*12/30/21 07:58*	*01/04/22 14:10*	*10*
p-Terphenyl-d14 (Surr)	*107*		*79 - 130*	*12/30/21 07:58*	*01/04/22 14:10*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11900**		11.8	5.2	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Antimony	**0.88**	**J**	17.6	0.47	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Arsenic	**5.5**		2.4	0.47	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Barium	**107**		0.59	0.13	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Beryllium	**1.1**		0.24	0.033	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Cadmium	**1.2**		0.24	0.035	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Calcium	**55500**	**B**	58.8	3.9	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Chromium	**14.6**		0.59	0.24	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Cobalt	**5.5**		0.59	0.059	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Copper	**19.7**		1.2	0.25	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Iron	**13500**	**B**	11.8	4.1	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Lead	**162**		1.2	0.28	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Magnesium	**15700**		23.5	1.1	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1

Client Sample ID: B4S1

Lab Sample ID: 480-193741-6

Date Collected: 12/21/21 10:15
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 81.5

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	577	B	0.24	0.038	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Nickel	19.1		5.9	0.27	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Potassium	2600		35.3	23.5	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Selenium	1.2	J	4.7	0.47	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Silver	0.71	U	0.71	0.24	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Sodium	353	B	165	15.3	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Thallium	7.1	U	7.1	0.35	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Vanadium	21.4		0.59	0.13	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1
Zinc	97.3		2.4	0.75	mg/Kg	☼	12/27/21 14:21	12/28/21 18:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.064		0.026	0.0060	mg/Kg	☼	12/30/21 13:32	12/30/21 14:52	1

Client Sample ID: B5S1

Lab Sample ID: 480-193741-7

Date Collected: 12/21/21 10:35
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	1900	U	1900	520	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
2,4,6-Trichlorophenol	1900	U	1900	390	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
2,4-Dichlorophenol	1900	U	1900	200	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
2,4-Dimethylphenol	1900	U	1900	460	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
2,4-Dinitrophenol	19000	U	19000	8900	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
2,4-Dinitrotoluene	1900	U	1900	400	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
2,6-Dinitrotoluene	1900	U	1900	230	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
2-Chloronaphthalene	1900	U	1900	320	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
2-Chlorophenol	3700	U	3700	350	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
2-Methylnaphthalene	1900	U	1900	390	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
2-Methylphenol	1900	U	1900	230	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
2-Nitroaniline	3700	U	3700	280	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
2-Nitrophenol	1900	U	1900	540	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
3,3'-Dichlorobenzidine	3700	U	3700	2300	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
3-Nitroaniline	3700	U	3700	530	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
4,6-Dinitro-2-methylphenol	3700	U	3700	1900	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
4-Bromophenyl phenyl ether	1900	U	1900	270	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
4-Chloro-3-methylphenol	1900	U	1900	480	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
4-Chloroaniline	1900	U	1900	480	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
4-Chlorophenyl phenyl ether	1900	U	1900	240	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
4-Methylphenol	3700	U	3700	230	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
4-Nitroaniline	3700	U	3700	1000	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
4-Nitrophenol	3700	U	3700	1300	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Acenaphthene	1900	U	1900	280	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Acenaphthylene	1900	U	1900	250	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Acetophenone	1900	U	1900	260	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Anthracene	1900	U	1900	480	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Atrazine	1900	U	1900	670	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Benzaldehyde	1900	U	1900	1500	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Benzo[a]anthracene	1900	U	1900	190	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10

Client Sample ID: B5S1
Lab Sample ID: 480-193741-7
Date Collected: 12/21/21 10:35
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	1900	U	1900	280	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Benzo[b]fluoranthene	1900	U	1900	310	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Benzo[g,h,i]perylene	1900	U	1900	200	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Benzo[k]fluoranthene	1900	U	1900	250	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Biphenyl	1900	U	1900	280	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
bis (2-chloroisopropyl) ether	1900	U	1900	390	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Bis(2-chloroethoxy)methane	1900	U	1900	410	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Bis(2-chloroethyl)ether	1900	U	1900	250	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Bis(2-ethylhexyl) phthalate	1900	U	1900	660	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Butyl benzyl phthalate	1900	U	1900	320	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Caprolactam	1900	U	1900	580	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Carbazole	1900	U	1900	230	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Chrysene	1900	U	1900	430	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Dibenz(a,h)anthracene	1900	U	1900	340	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Dibenzofuran	1900	U	1900	230	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Diethyl phthalate	1900	U	1900	250	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Dimethyl phthalate	1900	U	1900	230	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Di-n-butyl phthalate	1900	U	1900	330	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Di-n-octyl phthalate	1900	U	1900	230	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Fluoranthene	1900	U	1900	200	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Fluorene	1900	U	1900	230	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Hexachlorobenzene	1900	U	1900	260	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Hexachlorobutadiene	1900	U	1900	280	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Hexachlorocyclopentadiene	1900	U	1900	260	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Hexachloroethane	1900	U	1900	250	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Indeno[1,2,3-cd]pyrene	1900	U	1900	240	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Isophorone	1900	U	1900	410	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Naphthalene	1900	U	1900	250	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Nitrobenzene	1900	U	1900	220	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
N-Nitrosodi-n-propylamine	1900	U	1900	330	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
N-Nitrosodiphenylamine	1900	U	1900	1600	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Pentachlorophenol	3700	U	3700	1900	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Phenanthrene	1900	U	1900	280	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Phenol	1900	U	1900	290	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10
Pyrene	1900	U	1900	230	ug/Kg	☼	12/30/21 07:58	01/04/22 14:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*54 - 120*	*12/30/21 07:58*	*01/04/22 14:34*	*10*
2-Fluorobiphenyl (Surr)	*98*		*60 - 120*	*12/30/21 07:58*	*01/04/22 14:34*	*10*
2-Fluorophenol (Surr)	*78*		*52 - 120*	*12/30/21 07:58*	*01/04/22 14:34*	*10*
Nitrobenzene-d5 (Surr)	*81*		*53 - 120*	*12/30/21 07:58*	*01/04/22 14:34*	*10*
Phenol-d5 (Surr)	*81*		*54 - 120*	*12/30/21 07:58*	*01/04/22 14:34*	*10*
p-Terphenyl-d14 (Surr)	*101*		*79 - 130*	*12/30/21 07:58*	*01/04/22 14:34*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8610**		11.6	5.1	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Antimony	**1.5**	**J**	17.5	0.47	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Arsenic	**5.8**		2.3	0.47	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Barium	**69.3**		0.58	0.13	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1

Client Sample ID: B5S1

Lab Sample ID: 480-193741-7

Date Collected: 12/21/21 10:35
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 86.8

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.46		0.23	0.033	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Cadmium	0.68		0.23	0.035	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Calcium	34700	B	58.2	3.8	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Chromium	17.5		0.58	0.23	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Cobalt	4.3		0.58	0.058	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Copper	32.2		1.2	0.24	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Iron	13400	B	11.6	4.1	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Lead	283		1.2	0.28	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Magnesium	10600		23.3	1.1	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Manganese	447	B	0.23	0.037	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Nickel	28.3		5.8	0.27	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Potassium	1380		34.9	23.3	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Selenium	1.1	J	4.7	0.47	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Silver	0.43	J	0.70	0.23	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Sodium	390	B	163	15.1	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Thallium	7.0	U	7.0	0.35	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Vanadium	19.0		0.58	0.13	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1
Zinc	90.6		2.3	0.74	mg/Kg	☼	12/27/21 14:21	12/28/21 18:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.82		0.019	0.0043	mg/Kg	☼	12/30/21 13:32	12/30/21 14:53	1

Client Sample ID: B6S1

Lab Sample ID: 480-193741-8

Date Collected: 12/21/21 11:00
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 78.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	220	U	220	58	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
2,4,6-Trichlorophenol	220	U	220	43	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
2,4-Dichlorophenol	220	U	220	23	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
2,4-Dimethylphenol	220	U	220	52	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
2,4-Dinitrophenol	2100	U	2100	1000	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
2,4-Dinitrotoluene	220	U	220	45	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
2,6-Dinitrotoluene	220	U	220	25	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
2-Chloronaphthalene	220	U	220	36	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
2-Chlorophenol	420	U	420	39	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
2-Methylnaphthalene	59	J	220	43	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
2-Methylphenol	220	U	220	25	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
2-Nitroaniline	420	U	420	32	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
2-Nitrophenol	220	U	220	61	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
3,3'-Dichlorobenzidine	420	U	420	250	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
3-Nitroaniline	420	U	420	60	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
4,6-Dinitro-2-methylphenol	420	U	420	220	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
4-Bromophenyl phenyl ether	220	U	220	31	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
4-Chloro-3-methylphenol	220	U	220	53	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
4-Chloroaniline	220	U	220	53	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
4-Chlorophenyl phenyl ether	220	U	220	27	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
4-Methylphenol	420	U	420	25	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B6S1
Lab Sample ID: 480-193741-8
Date Collected: 12/21/21 11:00
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 78.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	420	U	420	110	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
4-Nitrophenol	420	U	420	150	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Acenaphthene	**260**		220	32	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Acenaphthylene	**39**	**J**	220	28	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Acetophenone	220	U	220	29	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Anthracene	**600**		220	53	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Atrazine	220	U	220	75	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Benzaldehyde	220	U	220	170	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Benzo[a]anthracene	**1100**		220	22	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Benzo[a]pyrene	**950**		220	32	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Benzo[b]fluoranthene	**1100**		220	34	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Benzo[g,h,i]perylene	**620**		220	23	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Benzo[k]fluoranthene	**460**		220	28	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Biphenyl	220	U	220	32	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
bis (2-chloroisopropyl) ether	220	U	220	43	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Bis(2-chloroethoxy)methane	220	U	220	46	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Bis(2-chloroethyl)ether	220	U	220	28	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Bis(2-ethylhexyl) phthalate	220	U	220	74	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Butyl benzyl phthalate	220	U	220	36	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Caprolactam	220	U	220	65	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Carbazole	**240**		220	25	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Chrysene	**1100**		220	48	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Dibenz(a,h)anthracene	**200**	**J**	220	38	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Dibenzofuran	**180**	**J**	220	25	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Diethyl phthalate	220	U	220	28	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Dimethyl phthalate	220	U	220	25	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Di-n-butyl phthalate	220	U	220	37	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Di-n-octyl phthalate	220	U	220	25	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Fluoranthene	**2400**		220	23	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Fluorene	**260**		220	25	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Hexachlorobenzene	220	U	220	29	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Hexachlorobutadiene	220	U	220	32	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Hexachlorocyclopentadiene	220	U	220	29	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Hexachloroethane	220	U	220	28	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Indeno[1,2,3-cd]pyrene	**610**		220	27	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Isophorone	220	U	220	46	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Naphthalene	**83**	**J**	220	28	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Nitrobenzene	220	U	220	24	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
N-Nitrosodi-n-propylamine	220	U	220	37	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
N-Nitrosodiphenylamine	220	U	220	180	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Pentachlorophenol	420	U	420	220	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Phenanthrene	**2300**		220	32	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Phenol	220	U	220	33	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1
Pyrene	**2000**		220	25	ug/Kg	☼	12/30/21 07:58	01/04/22 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*105*		*54 - 120*	*12/30/21 07:58*	*01/04/22 14:58*	*1*
2-Fluorobiphenyl (Surr)	*101*		*60 - 120*	*12/30/21 07:58*	*01/04/22 14:58*	*1*
2-Fluorophenol (Surr)	*85*		*52 - 120*	*12/30/21 07:58*	*01/04/22 14:58*	*1*
Nitrobenzene-d5 (Surr)	*83*		*53 - 120*	*12/30/21 07:58*	*01/04/22 14:58*	*1*

Client Sample ID: B6S1

Lab Sample ID: 480-193741-8

Date Collected: 12/21/21 11:00
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 78.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*86*		*54 - 120*	*12/30/21 07:58*	*01/04/22 14:58*	*1*
p-Terphenyl-d14 (Surr)	*106*		*79 - 130*	*12/30/21 07:58*	*01/04/22 14:58*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11800		12.5	5.5	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Antimony	0.70	J	18.7	0.50	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Arsenic	4.5		2.5	0.50	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Barium	58.2		0.62	0.14	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Beryllium	0.62		0.25	0.035	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Cadmium	0.36		0.25	0.037	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Calcium	14300	B	62.4	4.1	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Chromium	16.0		0.62	0.25	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Cobalt	4.8		0.62	0.062	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Copper	23.2		1.2	0.26	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Iron	11900	B	12.5	4.4	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Lead	158		1.2	0.30	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Magnesium	5990		25.0	1.2	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Manganese	106	B	0.25	0.040	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Nickel	13.6		6.2	0.29	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Potassium	1770		37.5	25.0	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Selenium	0.88	J	5.0	0.50	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Silver	0.27	J	0.75	0.25	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Sodium	280	B	175	16.2	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Thallium	7.5	U	7.5	0.37	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Vanadium	21.8		0.62	0.14	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1
Zinc	157		2.5	0.80	mg/Kg	☼	12/27/21 14:21	12/28/21 18:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.3		0.24	0.056	mg/Kg	☼	12/30/21 13:32	12/30/21 15:49	10

Client Sample ID: B7S1

Lab Sample ID: 480-193741-9

Date Collected: 12/21/21 11:15
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 75.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	1100	U	1100	300	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
2,4,6-Trichlorophenol	1100	U	1100	220	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
2,4-Dichlorophenol	1100	U	1100	120	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
2,4-Dimethylphenol	1100	U	1100	270	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
2,4-Dinitrophenol	11000	U	11000	5200	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
2,4-Dinitrotoluene	1100	U	1100	230	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
2,6-Dinitrotoluene	1100	U	1100	130	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
2-Chloronaphthalene	1100	U	1100	180	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
2-Chlorophenol	2200	U	2200	200	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
2-Methylnaphthalene	1100	U	1100	220	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
2-Methylphenol	1100	U	1100	130	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
2-Nitroaniline	2200	U	2200	160	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B7S1
Lab Sample ID: 480-193741-9
Date Collected: 12/21/21 11:15
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 75.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	1100	U	1100	320	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
3,3'-Dichlorobenzidine	2200	U	2200	1300	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
3-Nitroaniline	2200	U	2200	310	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
4,6-Dinitro-2-methylphenol	2200	U	2200	1100	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
4-Bromophenyl phenyl ether	1100	U	1100	160	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
4-Chloro-3-methylphenol	1100	U	1100	280	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
4-Chloroaniline	1100	U	1100	280	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
4-Chlorophenyl phenyl ether	1100	U	1100	140	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
4-Methylphenol	2200	U	2200	130	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
4-Nitroaniline	2200	U	2200	590	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
4-Nitrophenol	2200	U	2200	780	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Acenaphthene	**350**	**J**	1100	160	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Acenaphthylene	1100	U	1100	150	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Acetophenone	1100	U	1100	150	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Anthracene	**740**	**J**	1100	280	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Atrazine	1100	U	1100	390	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Benzaldehyde	1100	U	1100	890	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Benzo[a]anthracene	**1600**		1100	110	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Benzo[a]pyrene	**1400**		1100	160	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Benzo[b]fluoranthene	**2000**		1100	180	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Benzo[g,h,i]perylene	**1100**		1100	120	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Benzo[k]fluoranthene	**580**	**J**	1100	150	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Biphenyl	1100	U	1100	160	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
bis (2-chloroisopropyl) ether	1100	U	1100	220	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Bis(2-chloroethoxy)methane	1100	U	1100	240	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Bis(2-chloroethyl)ether	1100	U	1100	150	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Bis(2-ethylhexyl) phthalate	1100	U	1100	380	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Butyl benzyl phthalate	1100	U	1100	180	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Caprolactam	1100	U	1100	340	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Carbazole	**310**	**J**	1100	130	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Chrysene	**1600**		1100	250	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Dibenz(a,h)anthracene	**300**	**J**	1100	200	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Dibenzofuran	**160**	**J**	1100	130	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Diethyl phthalate	1100	U	1100	150	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Dimethyl phthalate	1100	U	1100	130	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Di-n-butyl phthalate	1100	U	1100	190	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Di-n-octyl phthalate	1100	U	1100	130	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Fluoranthene	**4000**		1100	120	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Fluorene	**300**	**J**	1100	130	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Hexachlorobenzene	1100	U	1100	150	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Hexachlorobutadiene	1100	U	1100	160	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Hexachlorocyclopentadiene	1100	U	1100	150	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Hexachloroethane	1100	U	1100	150	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Indeno[1,2,3-cd]pyrene	**1000**	**J**	1100	140	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Isophorone	1100	U	1100	240	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Naphthalene	1100	U	1100	150	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Nitrobenzene	1100	U	1100	130	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
N-Nitrosodi-n-propylamine	1100	U	1100	190	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
N-Nitrosodiphenylamine	1100	U	1100	910	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5

Client Sample ID: B7S1
Lab Sample ID: 480-193741-9

Date Collected: 12/21/21 11:15
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 75.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	2200	U	2200	1100	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Phenanthrene	**3000**		1100	160	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Phenol	1100	U	1100	170	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5
Pyrene	**3100**		1100	130	ug/Kg	☼	12/30/21 07:58	01/04/22 15:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*54 - 120*	*12/30/21 07:58*	*01/04/22 15:23*	*5*
2-Fluorobiphenyl (Surr)	*89*		*60 - 120*	*12/30/21 07:58*	*01/04/22 15:23*	*5*
2-Fluorophenol (Surr)	*73*		*52 - 120*	*12/30/21 07:58*	*01/04/22 15:23*	*5*
Nitrobenzene-d5 (Surr)	*73*		*53 - 120*	*12/30/21 07:58*	*01/04/22 15:23*	*5*
Phenol-d5 (Surr)	*78*		*54 - 120*	*12/30/21 07:58*	*01/04/22 15:23*	*5*
p-Terphenyl-d14 (Surr)	*91*		*79 - 130*	*12/30/21 07:58*	*01/04/22 15:23*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		13.1	5.8	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Antimony	**2.7**	**J**	19.7	0.52	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Arsenic	**18.8**		2.6	0.52	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Barium	**410**		0.66	0.14	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Beryllium	**0.62**		0.26	0.037	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Cadmium	**0.81**		0.26	0.039	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Calcium	**17100**	**B**	65.6	4.3	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Chromium	**24.4**		0.66	0.26	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Cobalt	**9.8**		0.66	0.066	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Copper	**71.3**		1.3	0.28	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Iron	**21800**	**B**	13.1	4.6	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Lead	**932**		1.3	0.31	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Magnesium	**6030**		26.2	1.2	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Manganese	**405**	**B**	0.26	0.042	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Nickel	**19.6**		6.6	0.30	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Potassium	**1980**		39.3	26.2	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Selenium	**4.4**	**J**	5.2	0.52	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Silver	**0.77**	**J**	0.79	0.26	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Sodium	**421**	**B**	184	17.0	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Thallium	7.9	U	7.9	0.39	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Vanadium	**26.3**		0.66	0.14	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1
Zinc	**430**		2.6	0.84	mg/Kg	☼	12/27/21 14:21	12/28/21 18:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**7.0**		0.31	0.071	mg/Kg	☼	12/30/21 13:32	12/30/21 15:51	10

Client Sample ID: B8S1
Lab Sample ID: 480-193741-10

Date Collected: 12/21/21 11:25
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	1000	U	1000	280	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
2,4,6-Trichlorophenol	1000	U	1000	210	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
2,4-Dichlorophenol	1000	U	1000	110	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B8S1
Lab Sample ID: 480-193741-10
Date Collected: 12/21/21 11:25
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	1000	U	1000	250	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
2,4-Dinitrophenol	10000	U	10000	4800	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
2,4-Dinitrotoluene	1000	U	1000	210	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
2,6-Dinitrotoluene	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
2-Chloronaphthalene	1000	U	1000	170	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
2-Chlorophenol	2000	U	2000	190	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
2-Methylnaphthalene	1000	U	1000	210	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
2-Methylphenol	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
2-Nitroaniline	2000	U	2000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
2-Nitrophenol	1000	U	1000	290	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
3,3'-Dichlorobenzidine	2000	U	2000	1200	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
3-Nitroaniline	2000	U	2000	290	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
4,6-Dinitro-2-methylphenol	2000	U	2000	1000	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
4-Bromophenyl phenyl ether	1000	U	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
4-Chloro-3-methylphenol	1000	U	1000	260	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
4-Chloroaniline	1000	U	1000	260	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
4-Chlorophenyl phenyl ether	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
4-Methylphenol	2000	U	2000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
4-Nitroaniline	2000	U	2000	540	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
4-Nitrophenol	2000	U	2000	730	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Acenaphthene	1000	U	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Acenaphthylene	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Acetophenone	1000	U	1000	140	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Anthracene	1000	U	1000	260	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Atrazine	1000	U	1000	360	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Benzaldehyde	1000	U	1000	820	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Benzo[a]anthracene	1000	U	1000	100	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Benzo[a]pyrene	1000	U	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Benzo[b]fluoranthene	1000	U	1000	160	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Benzo[g,h,i]perylene	1000	U	1000	110	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Benzo[k]fluoranthene	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Biphenyl	1000	U	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
bis (2-chloroisopropyl) ether	1000	U	1000	210	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Bis(2-chloroethoxy)methane	1000	U	1000	220	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Bis(2-chloroethyl)ether	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Bis(2-ethylhexyl) phthalate	1000	U	1000	350	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Butyl benzyl phthalate	1000	U	1000	170	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Caprolactam	1000	U	1000	310	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Carbazole	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Chrysene	1000	U	1000	230	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Dibenz(a,h)anthracene	1000	U	1000	180	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Dibenzofuran	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Diethyl phthalate	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Dimethyl phthalate	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Di-n-butyl phthalate	1000	U	1000	180	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Di-n-octyl phthalate	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Fluoranthene	1000	U	1000	110	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Fluorene	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Hexachlorobenzene	1000	U	1000	140	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5

Client Sample ID: B8S1
Lab Sample ID: 480-193741-10
Date Collected: 12/21/21 11:25
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1000	U	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Hexachlorocyclopentadiene	1000	U	1000	140	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Hexachloroethane	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Indeno[1,2,3-cd]pyrene	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Isophorone	1000	U	1000	220	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Naphthalene	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Nitrobenzene	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
N-Nitrosodi-n-propylamine	1000	U	1000	180	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
N-Nitrosodiphenylamine	1000	U	1000	840	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Pentachlorophenol	2000	U	2000	1000	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Phenanthrene	1000	U	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Phenol	1000	U	1000	160	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5
Pyrene	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 15:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*92*		*54 - 120*	*12/30/21 07:58*	*01/04/22 15:47*	*5*
2-Fluorobiphenyl (Surr)	*98*		*60 - 120*	*12/30/21 07:58*	*01/04/22 15:47*	*5*
2-Fluorophenol (Surr)	*80*		*52 - 120*	*12/30/21 07:58*	*01/04/22 15:47*	*5*
Nitrobenzene-d5 (Surr)	*80*		*53 - 120*	*12/30/21 07:58*	*01/04/22 15:47*	*5*
Phenol-d5 (Surr)	*82*		*54 - 120*	*12/30/21 07:58*	*01/04/22 15:47*	*5*
p-Terphenyl-d14 (Surr)	*100*		*79 - 130*	*12/30/21 07:58*	*01/04/22 15:47*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5280**		12.6	5.5	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Antimony	**0.71**	**J**	18.9	0.50	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Arsenic	**2.7**		2.5	0.50	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Barium	**43.5**		0.63	0.14	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Beryllium	**0.23**	**J**	0.25	0.035	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Cadmium	**0.19**	**J**	0.25	0.038	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Calcium	**107000**	**B**	62.9	4.2	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Chromium	**8.3**		0.63	0.25	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Cobalt	**2.4**		0.63	0.063	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Copper	**11.8**		1.3	0.26	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Iron	**7980**	**B**	12.6	4.4	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Lead	**46.3**		1.3	0.30	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Magnesium	**56400**		25.2	1.2	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Manganese	**278**	**B**	0.25	0.040	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Nickel	**8.2**		6.3	0.29	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Potassium	**2050**		37.7	25.2	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Selenium	5.0	U	5.0	0.50	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Silver	0.75	U	0.75	0.25	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Sodium	**225**	**B**	176	16.4	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Thallium	7.5	U	7.5	0.38	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Vanadium	**12.7**		0.63	0.14	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1
Zinc	**360**		2.5	0.81	mg/Kg	☼	12/27/21 14:21	12/28/21 18:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.096**		0.024	0.0055	mg/Kg	☼	12/30/21 13:32	12/30/21 15:00	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B9S1
Lab Sample ID: 480-193741-11
Date Collected: 12/21/21 11:30
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	3800	U	3800	1000	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
2,4,6-Trichlorophenol	3800	U	3800	750	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
2,4-Dichlorophenol	3800	U	3800	400	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
2,4-Dimethylphenol	3800	U	3800	910	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
2,4-Dinitrophenol	37000	U	37000	17000	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
2,4-Dinitrotoluene	3800	U	3800	780	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
2,6-Dinitrotoluene	3800	U	3800	440	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
2-Chloronaphthalene	3800	U	3800	620	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
2-Chlorophenol	7300	U	7300	690	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
2-Methylnaphthalene	3800	U	3800	750	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
2-Methylphenol	3800	U	3800	440	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
2-Nitroaniline	7300	U	7300	550	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
2-Nitrophenol	3800	U	3800	1100	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
3,3'-Dichlorobenzidine	7300	U	7300	4400	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
3-Nitroaniline	7300	U	7300	1000	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
4,6-Dinitro-2-methylphenol	7300	U	7300	3800	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
4-Bromophenyl phenyl ether	3800	U	3800	530	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
4-Chloro-3-methylphenol	3800	U	3800	930	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
4-Chloroaniline	3800	U	3800	930	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
4-Chlorophenyl phenyl ether	3800	U	3800	470	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
4-Methylphenol	7300	U	7300	440	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
4-Nitroaniline	7300	U	7300	2000	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
4-Nitrophenol	7300	U	7300	2600	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Acenaphthene	3800	U	3800	550	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Acenaphthylene	3800	U	3800	490	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Acetophenone	3800	U	3800	510	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Anthracene	3800	U	3800	930	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Atrazine	3800	U	3800	1300	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Benzaldehyde	3800	U	3800	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Benzo[a]anthracene	3800	U	3800	380	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Benzo[a]pyrene	3800	U	3800	550	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Benzo[b]fluoranthene	3800	U	3800	600	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Benzo[g,h,i]perylene	3800	U	3800	400	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Benzo[k]fluoranthene	3800	U	3800	490	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Biphenyl	3800	U	3800	550	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
bis (2-chloroisopropyl) ether	3800	U	3800	750	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Bis(2-chloroethoxy)methane	3800	U	3800	800	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Bis(2-chloroethyl)ether	3800	U	3800	490	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Bis(2-ethylhexyl) phthalate	3800	U	3800	1300	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Butyl benzyl phthalate	3800	U	3800	620	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Caprolactam	3800	U	3800	1100	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Carbazole	3800	U	3800	440	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Chrysene	3800	U	3800	840	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Dibenz(a,h)anthracene	3800	U	3800	660	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Dibenzofuran	3800	U	3800	440	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Diethyl phthalate	3800	U	3800	490	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Dimethyl phthalate	3800	U	3800	440	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Di-n-butyl phthalate	3800	U	3800	640	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Di-n-octyl phthalate	3800	U	3800	440	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B9S1
Lab Sample ID: 480-193741-11
Date Collected: 12/21/21 11:30
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	3800	U	3800	400	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Fluorene	3800	U	3800	440	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Hexachlorobenzene	3800	U	3800	510	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Hexachlorobutadiene	3800	U	3800	550	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Hexachlorocyclopentadiene	3800	U	3800	510	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Hexachloroethane	3800	U	3800	490	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Indeno[1,2,3-cd]pyrene	3800	U	3800	470	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Isophorone	3800	U	3800	800	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Naphthalene	3800	U	3800	490	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Nitrobenzene	3800	U	3800	420	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
N-Nitrosodi-n-propylamine	3800	U	3800	640	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
N-Nitrosodiphenylamine	3800	U	3800	3100	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Pentachlorophenol	7300	U	7300	3800	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Phenanthrene	3800	U	3800	550	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Phenol	3800	U	3800	580	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20
Pyrene	3800	U	3800	440	ug/Kg	☼	12/30/21 07:58	01/04/22 16:11	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*81*		*54 - 120*	*12/30/21 07:58*	*01/04/22 16:11*	*20*
2-Fluorobiphenyl (Surr)	*79*		*60 - 120*	*12/30/21 07:58*	*01/04/22 16:11*	*20*
2-Fluorophenol (Surr)	*67*		*52 - 120*	*12/30/21 07:58*	*01/04/22 16:11*	*20*
Nitrobenzene-d5 (Surr)	*63*		*53 - 120*	*12/30/21 07:58*	*01/04/22 16:11*	*20*
Phenol-d5 (Surr)	*63*		*54 - 120*	*12/30/21 07:58*	*01/04/22 16:11*	*20*
p-Terphenyl-d14 (Surr)	*82*		*79 - 130*	*12/30/21 07:58*	*01/04/22 16:11*	*20*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4290**		11.4	5.0	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Antimony	**0.70**	**J**	17.1	0.46	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Arsenic	**4.6**		2.3	0.46	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Barium	**23.0**		0.57	0.13	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Beryllium	**0.20**	**J**	0.23	0.032	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Cadmium	**0.25**		0.23	0.034	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Calcium	**171000**	**B**	114	7.5	mg/Kg	☼	12/27/21 14:21	12/29/21 12:14	2
Chromium	**9.0**		0.57	0.23	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Cobalt	**2.5**		0.57	0.057	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Copper	**12.2**		2.3	0.48	mg/Kg	☼	12/27/21 14:21	12/29/21 12:14	2
Iron	**5480**	**B**	11.4	4.0	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Lead	**44.4**		1.1	0.27	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Magnesium	**14600**		22.8	1.1	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Manganese	**141**	**B**	0.23	0.036	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Nickel	**12.5**		5.7	0.26	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Potassium	**1150**		34.2	22.8	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Selenium	4.6	U	4.6	0.46	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Silver	0.68	U	0.68	0.23	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Sodium	**272**	**B**	160	14.8	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Thallium	6.8	U	6.8	0.34	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Vanadium	**13.7**		0.57	0.13	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1
Zinc	**56.7**		2.3	0.73	mg/Kg	☼	12/27/21 14:21	12/28/21 18:36	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B9S1
Lab Sample ID: 480-193741-11
Date Collected: 12/21/21 11:30
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 88.3

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.026	0.0059	mg/Kg	☼	12/30/21 13:32	12/30/21 15:01	1

Client Sample ID: B10S1
Lab Sample ID: 480-193741-12
Date Collected: 12/21/21 11:35
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 81.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	1000	U	1000	280	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
2,4,6-Trichlorophenol	1000	U	1000	210	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
2,4-Dichlorophenol	1000	U	1000	110	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
2,4-Dimethylphenol	1000	U	1000	250	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
2,4-Dinitrophenol	10000	U	10000	4800	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
2,4-Dinitrotoluene	1000	U	1000	210	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
2,6-Dinitrotoluene	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
2-Chloronaphthalene	1000	U	1000	170	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
2-Chlorophenol	2000	U	2000	190	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
2-Methylnaphthalene	1000	U	1000	210	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
2-Methylphenol	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
2-Nitroaniline	2000	U	2000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
2-Nitrophenol	1000	U	1000	290	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
3,3'-Dichlorobenzidine	2000	U	2000	1200	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
3-Nitroaniline	2000	U	2000	290	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
4,6-Dinitro-2-methylphenol	2000	U	2000	1000	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
4-Bromophenyl phenyl ether	1000	U	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
4-Chloro-3-methylphenol	1000	U	1000	260	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
4-Chloroaniline	1000	U	1000	260	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
4-Chlorophenyl phenyl ether	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
4-Methylphenol	2000	U	2000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
4-Nitroaniline	2000	U	2000	540	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
4-Nitrophenol	2000	U	2000	730	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Acenaphthene	**390**	**J**	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Acenaphthylene	**270**	**J**	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Acetophenone	1000	U	1000	140	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Anthracene	**1200**		1000	260	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Atrazine	1000	U	1000	360	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Benzaldehyde	1000	U	1000	830	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Benzo[a]anthracene	**3200**		1000	100	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Benzo[a]pyrene	**2700**		1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Benzo[b]fluoranthene	**3400**		1000	170	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Benzo[g,h,i]perylene	**1800**		1000	110	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Benzo[k]fluoranthene	**1300**		1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Biphenyl	1000	U	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
bis (2-chloroisopropyl) ether	1000	U	1000	210	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Bis(2-chloroethoxy)methane	1000	U	1000	220	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Bis(2-chloroethyl)ether	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Bis(2-ethylhexyl) phthalate	1000	U	1000	350	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Butyl benzyl phthalate	1000	U	1000	170	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Caprolactam	1000	U	1000	310	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Carbazole	**750**	**J**	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B10S1
Lab Sample ID: 480-193741-12
Date Collected: 12/21/21 11:35
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 81.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	3100		1000	230	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Dibenz(a,h)anthracene	590	J	1000	180	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Dibenzofuran	310	J	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Diethyl phthalate	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Dimethyl phthalate	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Di-n-butyl phthalate	1000	U	1000	180	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Di-n-octyl phthalate	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Fluoranthene	7200		1000	110	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Fluorene	490	J	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Hexachlorobenzene	1000	U	1000	140	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Hexachlorobutadiene	1000	U	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Hexachlorocyclopentadiene	1000	U	1000	140	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Hexachloroethane	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Indeno[1,2,3-cd]pyrene	1800		1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Isophorone	1000	U	1000	220	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Naphthalene	150	J	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Nitrobenzene	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
N-Nitrosodi-n-propylamine	1000	U	1000	180	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
N-Nitrosodiphenylamine	1000	U	1000	840	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Pentachlorophenol	2000	U	2000	1000	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Phenanthrene	5400		1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Phenol	1000	U	1000	160	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5
Pyrene	5200		1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 16:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*92*		*54 - 120*	*12/30/21 07:58*	*01/04/22 16:36*	*5*
2-Fluorobiphenyl (Surr)	*100*		*60 - 120*	*12/30/21 07:58*	*01/04/22 16:36*	*5*
2-Fluorophenol (Surr)	*81*		*52 - 120*	*12/30/21 07:58*	*01/04/22 16:36*	*5*
Nitrobenzene-d5 (Surr)	*81*		*53 - 120*	*12/30/21 07:58*	*01/04/22 16:36*	*5*
Phenol-d5 (Surr)	*80*		*54 - 120*	*12/30/21 07:58*	*01/04/22 16:36*	*5*
p-Terphenyl-d14 (Surr)	*98*		*79 - 130*	*12/30/21 07:58*	*01/04/22 16:36*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9970		11.9	5.3	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Antimony	4.3	J	17.9	0.48	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Arsenic	25.2		2.4	0.48	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Barium	289		0.60	0.13	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Beryllium	0.72		0.24	0.033	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Cadmium	2.1		0.24	0.036	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Calcium	35900	B	59.7	3.9	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Chromium	35.8		0.60	0.24	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Cobalt	7.9		0.60	0.060	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Copper	355		1.2	0.25	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Iron	25300	B	11.9	4.2	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Lead	809		1.2	0.29	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Magnesium	13600		23.9	1.1	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Manganese	374	B	0.24	0.038	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Nickel	76.5		6.0	0.27	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Potassium	2060		35.8	23.9	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1

Client Sample ID: B10S1

Lab Sample ID: 480-193741-12

Date Collected: 12/21/21 11:35
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 81.1

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**3.2**	**J**	4.8	0.48	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Silver	**18.0**		0.72	0.24	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Sodium	**382**	**B**	167	15.5	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Thallium	7.2	U	7.2	0.36	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Vanadium	**30.2**		0.60	0.13	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1
Zinc	**544**		2.4	0.76	mg/Kg	☼	12/27/21 14:21	12/28/21 18:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**4.8**		0.25	0.058	mg/Kg	☼	12/30/21 13:32	12/30/21 15:52	10

Client Sample ID: B11S1

Lab Sample ID: 480-193741-13

Date Collected: 12/21/21 12:00
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 79.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	1000	U	1000	280	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
2,4,6-Trichlorophenol	1000	U	1000	210	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
2,4-Dichlorophenol	1000	U	1000	110	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
2,4-Dimethylphenol	1000	U	1000	250	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
2,4-Dinitrophenol	10000	U	10000	4800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
2,4-Dinitrotoluene	1000	U	1000	210	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
2,6-Dinitrotoluene	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
2-Chloronaphthalene	1000	U	1000	170	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
2-Chlorophenol	2000	U	2000	190	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
2-Methylnaphthalene	**210**	**J**	1000	210	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
2-Methylphenol	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
2-Nitroaniline	2000	U	2000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
2-Nitrophenol	1000	U	1000	290	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
3,3'-Dichlorobenzidine	2000	U	2000	1200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
3-Nitroaniline	2000	U	2000	290	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
4,6-Dinitro-2-methylphenol	2000	U	2000	1000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
4-Bromophenyl phenyl ether	1000	U	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
4-Chloro-3-methylphenol	1000	U	1000	260	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
4-Chloroaniline	1000	U	1000	260	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
4-Chlorophenyl phenyl ether	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
4-Methylphenol	2000	U	2000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
4-Nitroaniline	2000	U	2000	540	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
4-Nitrophenol	2000	U	2000	730	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Acenaphthene	**380**	**J**	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Acenaphthylene	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Acetophenone	1000	U	1000	140	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Anthracene	**800**	**J**	1000	260	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Atrazine	1000	U	1000	360	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Benzaldehyde	1000	U	1000	820	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Benzo[a]anthracene	**1700**		1000	100	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Benzo[a]pyrene	**1600**		1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Benzo[b]fluoranthene	**1900**		1000	160	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Benzo[g,h,i]perylene	**1400**		1000	110	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B11S1
Lab Sample ID: 480-193741-13
Date Collected: 12/21/21 12:00
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 79.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**840**	**J**	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Biphenyl	1000	U	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
bis (2-chloroisopropyl) ether	1000	U	1000	210	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Bis(2-chloroethoxy)methane	1000	U	1000	220	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Bis(2-chloroethyl)ether	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Bis(2-ethylhexyl) phthalate	1000	U	1000	350	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Butyl benzyl phthalate	1000	U	1000	170	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Caprolactam	1000	U	1000	310	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Carbazole	**480**	**J**	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Chrysene	**1600**		1000	230	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Dibenz(a,h)anthracene	**420**	**J**	1000	180	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Dibenzofuran	**300**	**J**	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Diethyl phthalate	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Dimethyl phthalate	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Di-n-butyl phthalate	1000	U	1000	180	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Di-n-octyl phthalate	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Fluoranthene	**3900**		1000	110	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Fluorene	**390**	**J**	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Hexachlorobenzene	1000	U	1000	140	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Hexachlorobutadiene	1000	U	1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Hexachlorocyclopentadiene	1000	U	1000	140	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Hexachloroethane	1000	U	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Indeno[1,2,3-cd]pyrene	**1300**		1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Isophorone	1000	U	1000	220	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Naphthalene	**240**	**J**	1000	130	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Nitrobenzene	1000	U	1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
N-Nitrosodi-n-propylamine	1000	U	1000	180	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
N-Nitrosodiphenylamine	1000	U	1000	840	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Pentachlorophenol	2000	U	2000	1000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Phenanthrene	**3500**		1000	150	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Phenol	1000	U	1000	160	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5
Pyrene	**2700**		1000	120	ug/Kg	☼	12/30/21 07:58	01/04/22 17:00	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*93*		*54 - 120*	*12/30/21 07:58*	*01/04/22 17:00*	*5*
2-Fluorobiphenyl (Surr)	*100*		*60 - 120*	*12/30/21 07:58*	*01/04/22 17:00*	*5*
2-Fluorophenol (Surr)	*81*		*52 - 120*	*12/30/21 07:58*	*01/04/22 17:00*	*5*
Nitrobenzene-d5 (Surr)	*82*		*53 - 120*	*12/30/21 07:58*	*01/04/22 17:00*	*5*
Phenol-d5 (Surr)	*80*		*54 - 120*	*12/30/21 07:58*	*01/04/22 17:00*	*5*
p-Terphenyl-d14 (Surr)	*100*		*79 - 130*	*12/30/21 07:58*	*01/04/22 17:00*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13700**		12.2	5.4	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Antimony	**2.8**	**J**	18.3	0.49	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Arsenic	**11.6**		2.4	0.49	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Barium	**235**		0.61	0.13	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Beryllium	**1.7**		0.24	0.034	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Cadmium	**1.2**		0.24	0.037	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Calcium	**48500**	**B**	60.9	4.0	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1

Client Sample ID: B11S1
Lab Sample ID: 480-193741-13
Date Collected: 12/21/21 12:00
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 79.9

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	18.0		0.61	0.24	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Cobalt	5.6		0.61	0.061	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Copper	36.4		1.2	0.26	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Iron	28500	B	12.2	4.3	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Lead	183		1.2	0.29	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Magnesium	7500		24.4	1.1	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Manganese	1480	B	0.24	0.039	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Nickel	18.6		6.1	0.28	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Potassium	1940		36.6	24.4	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Selenium	3.1	J	4.9	0.49	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Silver	0.34	J	0.73	0.24	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Sodium	610	B	171	15.8	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Thallium	7.3	U	7.3	0.37	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Vanadium	23.2		0.61	0.13	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1
Zinc	266		2.4	0.78	mg/Kg	☼	12/27/21 14:21	12/28/21 18:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.48		0.019	0.0045	mg/Kg	☼	12/30/21 13:32	12/30/21 15:05	1

Client Sample ID: B12S1
Lab Sample ID: 480-193741-14
Date Collected: 12/21/21 12:15
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	19000	U	19000	5200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
2,4,6-Trichlorophenol	19000	U	19000	3800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
2,4-Dichlorophenol	19000	U	19000	2000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
2,4-Dimethylphenol	19000	U	19000	4600	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
2,4-Dinitrophenol	190000	U	190000	88000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
2,4-Dinitrotoluene	19000	U	19000	3900	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
2,6-Dinitrotoluene	19000	U	19000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
2-Chloronaphthalene	19000	U	19000	3100	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
2-Chlorophenol	37000	U	37000	3500	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
2-Methylnaphthalene	19000	U	19000	3800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
2-Methylphenol	19000	U	19000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
2-Nitroaniline	37000	U	37000	2800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
2-Nitrophenol	19000	U	19000	5400	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
3,3'-Dichlorobenzidine	37000	U	37000	22000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
3-Nitroaniline	37000	U	37000	5300	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
4,6-Dinitro-2-methylphenol	37000	U	37000	19000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
4-Bromophenyl phenyl ether	19000	U	19000	2700	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
4-Chloro-3-methylphenol	19000	U	19000	4700	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
4-Chloroaniline	19000	U	19000	4700	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
4-Chlorophenyl phenyl ether	19000	U	19000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
4-Methylphenol	37000	U	37000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
4-Nitroaniline	37000	U	37000	10000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
4-Nitrophenol	37000	U	37000	13000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Acenaphthene	19000	U	19000	2800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B12S1
Lab Sample ID: 480-193741-14
Date Collected: 12/21/21 12:15
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	19000	U	19000	2500	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Acetophenone	19000	U	19000	2600	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Anthracene	19000	U	19000	4700	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Atrazine	19000	U	19000	6600	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Benzaldehyde	19000	U	19000	15000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Benzo[a]anthracene	19000	U	19000	1900	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Benzo[a]pyrene	19000	U	19000	2800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Benzo[b]fluoranthene	19000	U	19000	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Benzo[g,h,i]perylene	19000	U	19000	2000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Benzo[k]fluoranthene	19000	U	19000	2500	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Biphenyl	19000	U	19000	2800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
bis (2-chloroisopropyl) ether	19000	U	19000	3800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Bis(2-chloroethoxy)methane	19000	U	19000	4000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Bis(2-chloroethyl)ether	19000	U	19000	2500	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Bis(2-ethylhexyl) phthalate	19000	U	19000	6500	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Butyl benzyl phthalate	19000	U	19000	3100	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Caprolactam	19000	U	19000	5700	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Carbazole	19000	U	19000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Chrysene	19000	U	19000	4300	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Dibenz(a,h)anthracene	19000	U	19000	3400	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Dibenzofuran	19000	U	19000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Diethyl phthalate	19000	U	19000	2500	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Dimethyl phthalate	19000	U	19000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Di-n-butyl phthalate	19000	U	19000	3300	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Di-n-octyl phthalate	19000	U	19000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Fluoranthene	19000	U	19000	2000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Fluorene	19000	U	19000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Hexachlorobenzene	19000	U	19000	2600	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Hexachlorobutadiene	19000	U	19000	2800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Hexachlorocyclopentadiene	19000	U	19000	2600	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Hexachloroethane	19000	U	19000	2500	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Indeno[1,2,3-cd]pyrene	19000	U	19000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Isophorone	19000	U	19000	4000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Naphthalene	19000	U	19000	2500	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Nitrobenzene	19000	U	19000	2100	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
N-Nitrosodi-n-propylamine	19000	U	19000	3300	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
N-Nitrosodiphenylamine	19000	U	19000	15000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Pentachlorophenol	37000	U	37000	19000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Phenanthrene	19000	U	19000	2800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Phenol	19000	U	19000	2900	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10
Pyrene	19000	U	19000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*54 - 120*	*12/30/21 07:58*	*01/04/22 17:24*	*10*
2-Fluorobiphenyl (Surr)	*89*		*60 - 120*	*12/30/21 07:58*	*01/04/22 17:24*	*10*
2-Fluorophenol (Surr)	*0*	*S1-*	*52 - 120*	*12/30/21 07:58*	*01/04/22 17:24*	*10*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*53 - 120*	*12/30/21 07:58*	*01/04/22 17:24*	*10*
Phenol-d5 (Surr)	*0*	*S1-*	*54 - 120*	*12/30/21 07:58*	*01/04/22 17:24*	*10*
p-Terphenyl-d14 (Surr)	*0*	*S1-*	*79 - 130*	*12/30/21 07:58*	*01/04/22 17:24*	*10*

Client Sample ID: B12S1

Lab Sample ID: 480-193741-14

Date Collected: 12/21/21 12:15
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 88.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7750		11.1	4.9	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Antimony	1.7	J	16.7	0.45	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Arsenic	6.2		2.2	0.45	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Barium	50.2		0.56	0.12	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Beryllium	0.42		0.22	0.031	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Cadmium	0.26		0.22	0.033	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Calcium	94700	B	55.6	3.7	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Chromium	10.5		0.56	0.22	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Cobalt	4.9		0.56	0.056	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Copper	58.6		1.1	0.23	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Iron	10500	B	11.1	3.9	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Lead	601		1.1	0.27	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Magnesium	20600		22.3	1.0	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Manganese	302	B	0.22	0.036	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Nickel	15.2		5.6	0.26	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Potassium	1940		33.4	22.3	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Selenium	0.82	J	4.5	0.45	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Silver	0.67	U	0.67	0.22	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Sodium	344	B	156	14.5	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Thallium	6.7	U	6.7	0.33	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Vanadium	19.7		0.56	0.12	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1
Zinc	83.7		2.2	0.71	mg/Kg	☼	12/27/21 14:21	12/28/21 18:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.025	0.0057	mg/Kg	☼	12/30/21 13:32	12/30/21 15:06	1

Client Sample ID: B13S1

Lab Sample ID: 480-193741-15

Date Collected: 12/21/21 12:35
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 87.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	19000	U	19000	5100	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
2,4,6-Trichlorophenol	19000	U	19000	3800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
2,4-Dichlorophenol	19000	U	19000	2000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
2,4-Dimethylphenol	19000	U	19000	4500	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
2,4-Dinitrophenol	180000	U	180000	87000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
2,4-Dinitrotoluene	19000	U	19000	3900	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
2,6-Dinitrotoluene	19000	U	19000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
2-Chloronaphthalene	19000	U	19000	3100	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
2-Chlorophenol	37000	U	37000	3400	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
2-Methylnaphthalene	19000	U	19000	3800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
2-Methylphenol	19000	U	19000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
2-Nitroaniline	37000	U	37000	2800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
2-Nitrophenol	19000	U	19000	5300	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
3,3'-Dichlorobenzidine	37000	U	37000	22000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
3-Nitroaniline	37000	U	37000	5200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
4,6-Dinitro-2-methylphenol	37000	U	37000	19000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
4-Bromophenyl phenyl ether	19000	U	19000	2700	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B13S1
Lab Sample ID: 480-193741-15
Date Collected: 12/21/21 12:35
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 87.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	19000	U	19000	4700	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
4-Chloroaniline	19000	U	19000	4700	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
4-Chlorophenyl phenyl ether	19000	U	19000	2300	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
4-Methylphenol	37000	U	37000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
4-Nitroaniline	37000	U	37000	9900	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
4-Nitrophenol	37000	U	37000	13000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Acenaphthene	19000	U	19000	2800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Acenaphthylene	19000	U	19000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Acetophenone	19000	U	19000	2500	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Anthracene	19000	U	19000	4700	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Atrazine	19000	U	19000	6500	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Benzaldehyde	19000	U	19000	15000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Benzo[a]anthracene	19000	U	19000	1900	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Benzo[a]pyrene	19000	U	19000	2800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Benzo[b]fluoranthene	19000	U	19000	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Benzo[g,h,i]perylene	19000	U	19000	2000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Benzo[k]fluoranthene	19000	U	19000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Biphenyl	19000	U	19000	2800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
bis (2-chloroisopropyl) ether	19000	U	19000	3800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Bis(2-chloroethoxy)methane	19000	U	19000	4000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Bis(2-chloroethyl)ether	19000	U	19000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Bis(2-ethylhexyl) phthalate	19000	U	19000	6400	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Butyl benzyl phthalate	19000	U	19000	3100	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Caprolactam	19000	U	19000	5700	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Carbazole	19000	U	19000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Chrysene	19000	U	19000	4200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Dibenz(a,h)anthracene	19000	U	19000	3300	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Dibenzofuran	19000	U	19000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Diethyl phthalate	19000	U	19000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Dimethyl phthalate	19000	U	19000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Di-n-butyl phthalate	19000	U	19000	3200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Di-n-octyl phthalate	19000	U	19000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Fluoranthene	19000	U	19000	2000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Fluorene	19000	U	19000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Hexachlorobenzene	19000	U	19000	2500	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Hexachlorobutadiene	19000	U	19000	2800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Hexachlorocyclopentadiene	19000	U	19000	2500	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Hexachloroethane	19000	U	19000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Indeno[1,2,3-cd]pyrene	19000	U	19000	2300	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Isophorone	19000	U	19000	4000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Naphthalene	19000	U	19000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Nitrobenzene	19000	U	19000	2100	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
N-Nitrosodi-n-propylamine	19000	U	19000	3200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
N-Nitrosodiphenylamine	19000	U	19000	15000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Pentachlorophenol	37000	U	37000	19000	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Phenanthrene	19000	U	19000	2800	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Phenol	19000	U	19000	2900	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10
Pyrene	19000	U	19000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 17:49	10

Client Sample ID: B13S1

Lab Sample ID: 480-193741-15

Date Collected: 12/21/21 12:35
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 87.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*54 - 120*	*12/30/21 07:58*	*01/04/22 17:49*	*10*
2-Fluorobiphenyl (Surr)	*99*		*60 - 120*	*12/30/21 07:58*	*01/04/22 17:49*	*10*
2-Fluorophenol (Surr)	*0*	*S1-*	*52 - 120*	*12/30/21 07:58*	*01/04/22 17:49*	*10*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*53 - 120*	*12/30/21 07:58*	*01/04/22 17:49*	*10*
Phenol-d5 (Surr)	*0*	*S1-*	*54 - 120*	*12/30/21 07:58*	*01/04/22 17:49*	*10*
p-Terphenyl-d14 (Surr)	*0*	*S1-*	*79 - 130*	*12/30/21 07:58*	*01/04/22 17:49*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8890**		11.5	5.1	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Antimony	**0.94**	**J**	17.2	0.46	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Arsenic	**5.1**		2.3	0.46	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Barium	**49.1**		0.57	0.13	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Beryllium	**0.36**		0.23	0.032	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Cadmium	**0.16**	**J**	0.23	0.034	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Calcium	**94300**	**B**	57.4	3.8	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Chromium	**11.7**		0.57	0.23	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Cobalt	**4.9**		0.57	0.057	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Copper	**9.3**		1.1	0.24	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Iron	**11400**	**B**	11.5	4.0	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Lead	**13.4**		1.1	0.28	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Magnesium	**15800**		23.0	1.1	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Manganese	**317**	**B**	0.23	0.037	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Nickel	**13.3**		5.7	0.26	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Potassium	**2510**		34.4	23.0	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Selenium	**0.69**	**J**	4.6	0.46	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Silver	0.69	U	0.69	0.23	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Sodium	**288**	**B**	161	14.9	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Thallium	6.9	U	6.9	0.34	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Vanadium	**20.3**		0.57	0.13	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1
Zinc	**43.9**		2.3	0.73	mg/Kg	☼	12/27/21 14:21	12/28/21 18:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**J**	0.019	0.0043	mg/Kg	☼	12/30/21 13:32	12/30/21 15:10	1

Client Sample ID: B14S1

Lab Sample ID: 480-193741-16

Date Collected: 12/21/21 12:50
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 90.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	3700	U	3700	1000	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
2,4,6-Trichlorophenol	3700	U F2	3700	750	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
2,4-Dichlorophenol	3700	U	3700	400	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
2,4-Dimethylphenol	3700	U	3700	900	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
2,4-Dinitrophenol	37000	U	37000	17000	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
2,4-Dinitrotoluene	3700	U	3700	770	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
2,6-Dinitrotoluene	3700	U	3700	440	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
2-Chloronaphthalene	3700	U	3700	620	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
2-Chlorophenol	7300	U	7300	680	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B14S1
Lab Sample ID: 480-193741-16
Date Collected: 12/21/21 12:50
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 90.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**790**	**J**	3700	750	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
2-Methylphenol	3700	U	3700	440	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
2-Nitroaniline	7300	U	7300	550	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
2-Nitrophenol	3700	U F2	3700	1100	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
3,3'-Dichlorobenzidine	7300	U	7300	4400	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
3-Nitroaniline	7300	U	7300	1000	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
4,6-Dinitro-2-methylphenol	7300	U	7300	3700	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
4-Bromophenyl phenyl ether	3700	U	3700	530	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
4-Chloro-3-methylphenol	3700	U	3700	920	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
4-Chloroaniline	3700	U	3700	920	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
4-Chlorophenyl phenyl ether	3700	U	3700	460	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
4-Methylphenol	7300	U	7300	440	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
4-Nitroaniline	7300	U	7300	2000	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
4-Nitrophenol	7300	U F1	7300	2600	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Acenaphthene	**2800**	**J F1**	3700	550	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Acenaphthylene	**1100**	**J F1**	3700	480	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Acetophenone	3700	U	3700	510	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Anthracene	**6900**	**F1 F2**	3700	920	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Atrazine	3700	U	3700	1300	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Benzaldehyde	3700	U F1	3700	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Benzo[a]anthracene	**14000**	**F2**	3700	370	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Benzo[a]pyrene	**12000**	**F2**	3700	550	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Benzo[b]fluoranthene	**16000**	**F2**	3700	590	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Benzo[g,h,i]perylene	**8500**	**F2**	3700	400	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Benzo[k]fluoranthene	**5400**	**F1 F2**	3700	480	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Biphenyl	3700	U	3700	550	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
bis (2-chloroisopropyl) ether	3700	U	3700	750	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Bis(2-chloroethoxy)methane	3700	U	3700	790	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Bis(2-chloroethyl)ether	3700	U	3700	480	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Bis(2-ethylhexyl) phthalate	3700	U	3700	1300	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Butyl benzyl phthalate	3700	U	3700	620	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Caprolactam	3700	U	3700	1100	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Carbazole	**3200**	**J F1**	3700	440	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Chrysene	**13000**	**F2**	3700	840	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Dibenz(a,h)anthracene	**2000**	**J F1**	3700	660	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Dibenzofuran	**2100**	**J F1**	3700	440	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Diethyl phthalate	3700	U	3700	480	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Dimethyl phthalate	3700	U	3700	440	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Di-n-butyl phthalate	3700	U	3700	640	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Di-n-octyl phthalate	3700	U	3700	440	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Fluoranthene	**36000**	**F2**	3700	400	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Fluorene	**2300**	**J F1**	3700	440	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Hexachlorobenzene	3700	U	3700	510	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Hexachlorobutadiene	3700	U	3700	550	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Hexachlorocyclopentadiene	3700	U	3700	510	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Hexachloroethane	3700	U	3700	480	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Indeno[1,2,3-cd]pyrene	**7600**	**F2**	3700	460	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Isophorone	3700	U	3700	790	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Naphthalene	**1000**	**J**	3700	480	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B14S1
Lab Sample ID: 480-193741-16
Date Collected: 12/21/21 12:50
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 90.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	3700	U	3700	420	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
N-Nitrosodi-n-propylamine	3700	U	3700	640	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
N-Nitrosodiphenylamine	3700	U	3700	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Pentachlorophenol	7300	U	7300	3700	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Phenanthrene	**32000**	**F2**	3700	550	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Phenol	3700	U	3700	570	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20
Pyrene	**29000**	**F2**	3700	440	ug/Kg	☼	12/30/21 07:58	01/04/22 12:32	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*54 - 120*	*12/30/21 07:58*	*01/04/22 12:32*	*20*
2-Fluorobiphenyl (Surr)	*97*		*60 - 120*	*12/30/21 07:58*	*01/04/22 12:32*	*20*
2-Fluorophenol (Surr)	*55*		*52 - 120*	*12/30/21 07:58*	*01/04/22 12:32*	*20*
Nitrobenzene-d5 (Surr)	*71*		*53 - 120*	*12/30/21 07:58*	*01/04/22 12:32*	*20*
Phenol-d5 (Surr)	*70*		*54 - 120*	*12/30/21 07:58*	*01/04/22 12:32*	*20*
p-Terphenyl-d14 (Surr)	*107*		*79 - 130*	*12/30/21 07:58*	*01/04/22 12:32*	*20*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4500**		10.5	4.6	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Antimony	**0.64**	**J**	15.7	0.42	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Arsenic	**1.5**	**J**	2.1	0.42	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Barium	**15.8**		0.52	0.12	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Beryllium	**0.21**		0.21	0.029	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Cadmium	**0.17**	**J**	0.21	0.031	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Calcium	**41000**	**B**	52.4	3.5	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Chromium	**6.3**		0.52	0.21	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Cobalt	**2.2**		0.52	0.052	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Copper	**5.6**		1.0	0.22	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Iron	**6490**	**B**	10.5	3.7	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Lead	**13.2**		1.0	0.25	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Magnesium	**23200**		21.0	0.97	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Manganese	**253**	**B**	0.21	0.034	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Nickel	**5.9**		5.2	0.24	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Potassium	**1260**		31.4	21.0	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Selenium	**0.51**	**J**	4.2	0.42	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Silver	0.63	U	0.63	0.21	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Sodium	**254**	**B**	147	13.6	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Thallium	6.3	U	6.3	0.31	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Vanadium	**11.2**		0.52	0.12	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1
Zinc	**36.5**		2.1	0.67	mg/Kg	☼	12/27/21 14:21	12/28/21 19:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.021	0.0049	mg/Kg	☼	12/30/21 13:32	12/30/21 15:12	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B15S1
Lab Sample ID: 480-193741-17
Date Collected: 12/21/21 12:55
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 90.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	18000	U	18000	5000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
2,4,6-Trichlorophenol	18000	U	18000	3700	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
2,4-Dichlorophenol	18000	U	18000	1900	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
2,4-Dimethylphenol	18000	U	18000	4400	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
2,4-Dinitrophenol	180000	U	180000	85000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
2,4-Dinitrotoluene	18000	U	18000	3800	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
2,6-Dinitrotoluene	18000	U	18000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
2-Chloronaphthalene	18000	U	18000	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
2-Chlorophenol	36000	U	36000	3300	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
2-Methylnaphthalene	18000	U	18000	3700	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
2-Methylphenol	18000	U	18000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
2-Nitroaniline	36000	U	36000	2700	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
2-Nitrophenol	18000	U	18000	5200	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
3,3'-Dichlorobenzidine	36000	U	36000	22000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
3-Nitroaniline	36000	U	36000	5100	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
4,6-Dinitro-2-methylphenol	36000	U	36000	18000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
4-Bromophenyl phenyl ether	18000	U	18000	2600	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
4-Chloro-3-methylphenol	18000	U	18000	4500	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
4-Chloroaniline	18000	U	18000	4500	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
4-Chlorophenyl phenyl ether	18000	U	18000	2300	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
4-Methylphenol	36000	U	36000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
4-Nitroaniline	36000	U	36000	9600	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
4-Nitrophenol	36000	U	36000	13000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Acenaphthene	18000	U	18000	2700	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Acenaphthylene	18000	U	18000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Acetophenone	18000	U	18000	2500	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Anthracene	18000	U	18000	4500	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Atrazine	18000	U	18000	6400	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Benzaldehyde	18000	U	18000	15000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Benzo[a]anthracene	18000	U	18000	1800	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Benzo[a]pyrene	18000	U	18000	2700	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Benzo[b]fluoranthene	18000	U	18000	2900	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Benzo[g,h,i]perylene	18000	U	18000	1900	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Benzo[k]fluoranthene	18000	U	18000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Biphenyl	18000	U	18000	2700	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
bis (2-chloroisopropyl) ether	18000	U	18000	3700	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Bis(2-chloroethoxy)methane	18000	U	18000	3900	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Bis(2-chloroethyl)ether	18000	U	18000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Bis(2-ethylhexyl) phthalate	18000	U	18000	6300	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Butyl benzyl phthalate	18000	U	18000	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Caprolactam	18000	U	18000	5500	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Carbazole	18000	U	18000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Chrysene	18000	U	18000	4100	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Dibenz(a,h)anthracene	18000	U	18000	3200	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Dibenzofuran	18000	U	18000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Diethyl phthalate	18000	U	18000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Dimethyl phthalate	18000	U	18000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Di-n-butyl phthalate	18000	U	18000	3100	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Di-n-octyl phthalate	18000	U	18000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B15S1
Lab Sample ID: 480-193741-17
Date Collected: 12/21/21 12:55
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 90.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	18000	U	18000	1900	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Fluorene	18000	U	18000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Hexachlorobenzene	18000	U	18000	2500	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Hexachlorobutadiene	18000	U	18000	2700	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Hexachlorocyclopentadiene	18000	U	18000	2500	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Hexachloroethane	18000	U	18000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Indeno[1,2,3-cd]pyrene	18000	U	18000	2300	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Isophorone	18000	U	18000	3900	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Naphthalene	18000	U	18000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Nitrobenzene	18000	U	18000	2000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
N-Nitrosodi-n-propylamine	18000	U	18000	3100	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
N-Nitrosodiphenylamine	18000	U	18000	15000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Pentachlorophenol	36000	U	36000	18000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Phenanthrene	18000	U	18000	2700	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Phenol	18000	U	18000	2800	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10
Pyrene	18000	U	18000	2200	ug/Kg	☼	12/30/21 07:58	01/04/22 18:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*54 - 120*	*12/30/21 07:58*	*01/04/22 18:13*	*10*
2-Fluorobiphenyl (Surr)	*98*		*60 - 120*	*12/30/21 07:58*	*01/04/22 18:13*	*10*
2-Fluorophenol (Surr)	*0*	*S1-*	*52 - 120*	*12/30/21 07:58*	*01/04/22 18:13*	*10*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*53 - 120*	*12/30/21 07:58*	*01/04/22 18:13*	*10*
Phenol-d5 (Surr)	*0*	*S1-*	*54 - 120*	*12/30/21 07:58*	*01/04/22 18:13*	*10*
p-Terphenyl-d14 (Surr)	*0*	*S1-*	*79 - 130*	*12/30/21 07:58*	*01/04/22 18:13*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3120**		11.3	5.0	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Antimony	**0.47**	**J**	16.9	0.45	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Arsenic	**1.5**	**J**	2.3	0.45	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Barium	**8.8**		0.56	0.12	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Beryllium	**0.15**	**J**	0.23	0.032	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Cadmium	**0.10**	**J**	0.23	0.034	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Calcium	**112000**	**B**	113	7.4	mg/Kg	☼	12/27/21 14:21	12/29/21 12:17	2
Chromium	**5.7**		0.56	0.23	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Cobalt	**1.4**		0.56	0.056	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Copper	**4.7**		2.3	0.47	mg/Kg	☼	12/27/21 14:21	12/29/21 12:17	2
Iron	**4130**	**B**	11.3	3.9	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Lead	**8.3**		1.1	0.27	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Magnesium	**7810**		22.6	1.0	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Manganese	**88.1**	**B**	0.23	0.036	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Nickel	**5.6**		5.6	0.26	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Potassium	**1030**		33.9	22.6	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Selenium	4.5	U	4.5	0.45	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Silver	0.68	U	0.68	0.23	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Sodium	**183**	**B**	158	14.7	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Thallium	6.8	U	6.8	0.34	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Vanadium	**8.6**		0.56	0.12	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1
Zinc	**35.3**		2.3	0.72	mg/Kg	☼	12/27/21 14:21	12/28/21 19:10	1

Client Sample ID: B15S1
Lab Sample ID: 480-193741-17

Date Collected: 12/21/21 12:55
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 90.4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.036**		0.023	0.0054	mg/Kg	☼	12/30/21 13:32	12/30/21 15:13	1

Client Sample ID: B16S1
Lab Sample ID: 480-193741-18

Date Collected: 12/21/21 14:00
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 81.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	20000	U	20000	5500	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
2,4,6-Trichlorophenol	20000	U	20000	4000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
2,4-Dichlorophenol	20000	U	20000	2100	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
2,4-Dimethylphenol	20000	U	20000	4900	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
2,4-Dinitrophenol	200000	U	200000	93000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
2,4-Dinitrotoluene	20000	U	20000	4200	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
2,6-Dinitrotoluene	20000	U	20000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
2-Chloronaphthalene	20000	U	20000	3300	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
2-Chlorophenol	39000	U	39000	3700	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
2-Methylnaphthalene	20000	U	20000	4000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
2-Methylphenol	20000	U	20000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
2-Nitroaniline	39000	U	39000	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
2-Nitrophenol	20000	U	20000	5700	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
3,3'-Dichlorobenzidine	39000	U	39000	24000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
3-Nitroaniline	39000	U	39000	5600	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
4,6-Dinitro-2-methylphenol	39000	U	39000	20000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
4-Bromophenyl phenyl ether	20000	U	20000	2900	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
4-Chloro-3-methylphenol	20000	U	20000	5000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
4-Chloroaniline	20000	U	20000	5000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
4-Chlorophenyl phenyl ether	20000	U	20000	2500	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
4-Methylphenol	39000	U	39000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
4-Nitroaniline	39000	U	39000	11000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
4-Nitrophenol	39000	U	39000	14000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Acenaphthene	20000	U	20000	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Acenaphthylene	20000	U	20000	2600	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Acetophenone	20000	U	20000	2700	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Anthracene	20000	U	20000	5000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Atrazine	20000	U	20000	7000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Benzaldehyde	20000	U	20000	16000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Benzo[a]anthracene	**7400**	**J**	20000	2000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Benzo[a]pyrene	**7100**	**J**	20000	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Benzo[b]fluoranthene	**9000**	**J**	20000	3200	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Benzo[g,h,i]perylene	**5000**	**J**	20000	2100	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Benzo[k]fluoranthene	**3700**	**J**	20000	2600	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Biphenyl	20000	U	20000	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
bis (2-chloroisopropyl) ether	20000	U	20000	4000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Bis(2-chloroethoxy)methane	20000	U	20000	4300	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Bis(2-chloroethyl)ether	20000	U	20000	2600	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Bis(2-ethylhexyl) phthalate	20000	U	20000	6900	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Butyl benzyl phthalate	20000	U	20000	3300	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Caprolactam	20000	U	20000	6100	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Carbazole	20000	U	20000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10

Client Sample ID: B16S1
Lab Sample ID: 480-193741-18
Date Collected: 12/21/21 14:00
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 81.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**7700**	**J**	20000	4500	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Dibenz(a,h)anthracene	20000	U	20000	3600	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Dibenzofuran	20000	U	20000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Diethyl phthalate	20000	U	20000	2600	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Dimethyl phthalate	20000	U	20000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Di-n-butyl phthalate	20000	U	20000	3500	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Di-n-octyl phthalate	20000	U	20000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Fluoranthene	**18000**	**J**	20000	2100	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Fluorene	20000	U	20000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Hexachlorobenzene	20000	U	20000	2700	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Hexachlorobutadiene	20000	U	20000	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Hexachlorocyclopentadiene	20000	U	20000	2700	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Hexachloroethane	20000	U	20000	2600	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Indeno[1,2,3-cd]pyrene	**5100**	**J**	20000	2500	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Isophorone	20000	U	20000	4300	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Naphthalene	20000	U	20000	2600	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Nitrobenzene	20000	U	20000	2300	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
N-Nitrosodi-n-propylamine	20000	U	20000	3500	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
N-Nitrosodiphenylamine	20000	U	20000	16000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Pentachlorophenol	39000	U	39000	20000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Phenanthrene	**13000**	**J**	20000	3000	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Phenol	20000	U	20000	3100	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10
Pyrene	**13000**	**J**	20000	2400	ug/Kg	☼	12/30/21 07:58	01/04/22 18:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*54 - 120*	*12/30/21 07:58*	*01/04/22 18:38*	*10*
2-Fluorobiphenyl (Surr)	*96*		*60 - 120*	*12/30/21 07:58*	*01/04/22 18:38*	*10*
2-Fluorophenol (Surr)	*0*	*S1-*	*52 - 120*	*12/30/21 07:58*	*01/04/22 18:38*	*10*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*53 - 120*	*12/30/21 07:58*	*01/04/22 18:38*	*10*
Phenol-d5 (Surr)	*0*	*S1-*	*54 - 120*	*12/30/21 07:58*	*01/04/22 18:38*	*10*
p-Terphenyl-d14 (Surr)	*97*		*79 - 130*	*12/30/21 07:58*	*01/04/22 18:38*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9100**		12.5	5.5	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Antimony	**2.6**	**J**	18.8	0.50	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Arsenic	**7.7**		2.5	0.50	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Barium	**246**		0.63	0.14	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Beryllium	**0.85**		0.25	0.035	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Cadmium	**0.77**		0.25	0.038	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Calcium	**41900**	**B**	62.6	4.1	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Chromium	**12.8**		0.63	0.25	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Cobalt	**3.8**		0.63	0.063	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Copper	**18.1**		1.3	0.26	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Iron	**28900**	**B**	12.5	4.4	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Lead	**237**		1.3	0.30	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Magnesium	**12400**		25.1	1.2	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Manganese	**453**	**B**	0.25	0.040	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Nickel	**12.3**		6.3	0.29	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Potassium	**1300**		37.6	25.1	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1

Client Sample ID: B16S1
Lab Sample ID: 480-193741-18

Date Collected: 12/21/21 14:00
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 81.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**3.0**	**J**	5.0	0.50	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Silver	0.75	U	0.75	0.25	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Sodium	**327**	**B**	175	16.3	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Thallium	7.5	U	7.5	0.38	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Vanadium	**17.7**		0.63	0.14	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1
Zinc	**344**		2.5	0.80	mg/Kg	☼	12/27/21 14:21	12/28/21 19:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.098**		0.020	0.0045	mg/Kg	☼	12/30/21 13:32	12/30/21 15:14	1

Client Sample ID: TMW1
Lab Sample ID: 480-193741-19

Date Collected: 12/21/21 09:55
Matrix: Water
Date Received: 12/22/21 14:57

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	80	U	80	66	ug/L			12/23/21 17:52	80
1,1,2,2-Tetrachloroethane	80	U	80	17	ug/L			12/23/21 17:52	80
1,1,2-Trichloro-1,2,2-trifluoroethane	80	U	80	25	ug/L			12/23/21 17:52	80
1,1,2-Trichloroethane	80	U	80	18	ug/L			12/23/21 17:52	80
1,1-Dichloroethane	80	U	80	30	ug/L			12/23/21 17:52	80
1,1-Dichloroethene	80	U	80	23	ug/L			12/23/21 17:52	80
1,2,4-Trichlorobenzene	80	U	80	33	ug/L			12/23/21 17:52	80
1,2-Dibromo-3-Chloropropane	80	U	80	31	ug/L			12/23/21 17:52	80
1,2-Dibromoethane	80	U	80	58	ug/L			12/23/21 17:52	80
1,2-Dichlorobenzene	80	U	80	63	ug/L			12/23/21 17:52	80
1,2-Dichloroethane	80	U	80	17	ug/L			12/23/21 17:52	80
1,2-Dichloropropane	80	U	80	58	ug/L			12/23/21 17:52	80
1,3-Dichlorobenzene	80	U	80	62	ug/L			12/23/21 17:52	80
1,4-Dichlorobenzene	80	U	80	67	ug/L			12/23/21 17:52	80
2-Butanone (MEK)	800	U	800	110	ug/L			12/23/21 17:52	80
2-Hexanone	400	U	400	99	ug/L			12/23/21 17:52	80
4-Methyl-2-pentanone (MIBK)	400	U	400	170	ug/L			12/23/21 17:52	80
Acetone	800	U	800	240	ug/L			12/23/21 17:52	80
Benzene	80	U	80	33	ug/L			12/23/21 17:52	80
Bromodichloromethane	80	U	80	31	ug/L			12/23/21 17:52	80
Bromoform	80	U	80	21	ug/L			12/23/21 17:52	80
Bromomethane	80	U	80	55	ug/L			12/23/21 17:52	80
Carbon disulfide	80	U	80	15	ug/L			12/23/21 17:52	80
Carbon tetrachloride	80	U	80	22	ug/L			12/23/21 17:52	80
Chlorobenzene	80	U	80	60	ug/L			12/23/21 17:52	80
Chloroethane	80	U	80	26	ug/L			12/23/21 17:52	80
Chloroform	80	U	80	27	ug/L			12/23/21 17:52	80
Chloromethane	80	U	80	28	ug/L			12/23/21 17:52	80
cis-1,2-Dichloroethene	80	U	80	65	ug/L			12/23/21 17:52	80
cis-1,3-Dichloropropene	80	U	80	29	ug/L			12/23/21 17:52	80
Cyclohexane	**360**		80	14	ug/L			12/23/21 17:52	80
Dibromochloromethane	80	U	80	26	ug/L			12/23/21 17:52	80
Dichlorodifluoromethane	80	U	80	54	ug/L			12/23/21 17:52	80

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: TMW1
Lab Sample ID: 480-193741-19
Date Collected: 12/21/21 09:55
Matrix: Water
Date Received: 12/22/21 14:57

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	80	U	80	59	ug/L			12/23/21 17:52	80
Isopropylbenzene	80	U	80	63	ug/L			12/23/21 17:52	80
Methyl acetate	200	U	200	100	ug/L			12/23/21 17:52	80
Methyl tert-butyl ether	80	U	80	13	ug/L			12/23/21 17:52	80
Methylcyclohexane	**810**		80	13	ug/L			12/23/21 17:52	80
Methylene Chloride	80	U	80	35	ug/L			12/23/21 17:52	80
Styrene	80	U	80	58	ug/L			12/23/21 17:52	80
Tetrachloroethene	80	U	80	29	ug/L			12/23/21 17:52	80
Toluene	80	U	80	41	ug/L			12/23/21 17:52	80
trans-1,2-Dichloroethene	80	U	80	72	ug/L			12/23/21 17:52	80
trans-1,3-Dichloropropene	80	U	80	30	ug/L			12/23/21 17:52	80
Trichloroethene	80	U	80	37	ug/L			12/23/21 17:52	80
Trichlorofluoromethane	80	U	80	70	ug/L			12/23/21 17:52	80
Vinyl chloride	80	U	80	72	ug/L			12/23/21 17:52	80
Xylenes, Total	**99**	**J**	160	53	ug/L			12/23/21 17:52	80

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*12/23/21 17:52*	*80*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*12/23/21 17:52*	*80*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*12/23/21 17:52*	*80*
Toluene-d8 (Surr)	*89*		*80 - 120*		*12/23/21 17:52*	*80*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	96	U	96	9.2	ug/L		12/28/21 09:02	12/29/21 20:40	10
2,4,6-Trichlorophenol	96	U	96	12	ug/L		12/28/21 09:02	12/29/21 20:40	10
2,4-Dichlorophenol	96	U	96	9.8	ug/L		12/28/21 09:02	12/29/21 20:40	10
2,4-Dimethylphenol	96	U	96	9.6	ug/L		12/28/21 09:02	12/29/21 20:40	10
2,4-Dinitrophenol	190	U	190	43	ug/L		12/28/21 09:02	12/29/21 20:40	10
2,4-Dinitrotoluene	96	U *+	96	8.6	ug/L		12/28/21 09:02	12/29/21 20:40	10
2,6-Dinitrotoluene	96	U *+	96	7.7	ug/L		12/28/21 09:02	12/29/21 20:40	10
2-Chloronaphthalene	96	U	96	8.8	ug/L		12/28/21 09:02	12/29/21 20:40	10
2-Chlorophenol	96	U	96	10	ug/L		12/28/21 09:02	12/29/21 20:40	10
2-Methylnaphthalene	96	U	96	12	ug/L		12/28/21 09:02	12/29/21 20:40	10
2-Methylphenol	96	U	96	7.7	ug/L		12/28/21 09:02	12/29/21 20:40	10
2-Nitroaniline	190	U	190	8.1	ug/L		12/28/21 09:02	12/29/21 20:40	10
2-Nitrophenol	96	U	96	9.2	ug/L		12/28/21 09:02	12/29/21 20:40	10
3,3'-Dichlorobenzidine	96	U	96	7.7	ug/L		12/28/21 09:02	12/29/21 20:40	10
3-Nitroaniline	190	U	190	9.2	ug/L		12/28/21 09:02	12/29/21 20:40	10
4,6-Dinitro-2-methylphenol	190	U	190	42	ug/L		12/28/21 09:02	12/29/21 20:40	10
4-Bromophenyl phenyl ether	96	U	96	8.7	ug/L		12/28/21 09:02	12/29/21 20:40	10
4-Chloro-3-methylphenol	96	U	96	8.7	ug/L		12/28/21 09:02	12/29/21 20:40	10
4-Chloroaniline	96	U	96	11	ug/L		12/28/21 09:02	12/29/21 20:40	10
4-Chlorophenyl phenyl ether	96	U	96	6.7	ug/L		12/28/21 09:02	12/29/21 20:40	10
4-Methylphenol	190	U	190	6.9	ug/L		12/28/21 09:02	12/29/21 20:40	10
4-Nitroaniline	190	U *+	190	4.8	ug/L		12/28/21 09:02	12/29/21 20:40	10
4-Nitrophenol	190	U	190	29	ug/L		12/28/21 09:02	12/29/21 20:40	10
Acenaphthene	96	U	96	7.9	ug/L		12/28/21 09:02	12/29/21 20:40	10
Acenaphthylene	96	U	96	7.3	ug/L		12/28/21 09:02	12/29/21 20:40	10
Acetophenone	96	U	96	10	ug/L		12/28/21 09:02	12/29/21 20:40	10

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: TMW1
Lab Sample ID: 480-193741-19
Date Collected: 12/21/21 09:55
Matrix: Water
Date Received: 12/22/21 14:57

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	96	U *+	96	5.4	ug/L		12/28/21 09:02	12/29/21 20:40	10
Atrazine	96	U	96	8.8	ug/L		12/28/21 09:02	12/29/21 20:40	10
Benzaldehyde	96	U	96	5.1	ug/L		12/28/21 09:02	12/29/21 20:40	10
Benzo[a]anthracene	96	U	96	6.9	ug/L		12/28/21 09:02	12/29/21 20:40	10
Benzo[a]pyrene	96	U	96	9.0	ug/L		12/28/21 09:02	12/29/21 20:40	10
Benzo[b]fluoranthene	96	U	96	6.5	ug/L		12/28/21 09:02	12/29/21 20:40	10
Benzo[g,h,i]perylene	96	U	96	6.7	ug/L		12/28/21 09:02	12/29/21 20:40	10
Benzo[k]fluoranthene	96	U	96	14	ug/L		12/28/21 09:02	12/29/21 20:40	10
Biphenyl	96	U	96	13	ug/L		12/28/21 09:02	12/29/21 20:40	10
bis (2-chloroisopropyl) ether	96	U	96	10	ug/L		12/28/21 09:02	12/29/21 20:40	10
Bis(2-chloroethoxy)methane	96	U	96	6.7	ug/L		12/28/21 09:02	12/29/21 20:40	10
Bis(2-chloroethyl)ether	96	U	96	7.7	ug/L		12/28/21 09:02	12/29/21 20:40	10
Bis(2-ethylhexyl) phthalate	96	U	96	42	ug/L		12/28/21 09:02	12/29/21 20:40	10
Butyl benzyl phthalate	96	U	96	19	ug/L		12/28/21 09:02	12/29/21 20:40	10
Caprolactam	96	U	96	42	ug/L		12/28/21 09:02	12/29/21 20:40	10
Carbazole	96	U *+	96	5.8	ug/L		12/28/21 09:02	12/29/21 20:40	10
Chrysene	96	U	96	6.3	ug/L		12/28/21 09:02	12/29/21 20:40	10
Dibenz(a,h)anthracene	96	U	96	8.1	ug/L		12/28/21 09:02	12/29/21 20:40	10
Dibenzofuran	190	U	190	9.8	ug/L		12/28/21 09:02	12/29/21 20:40	10
Diethyl phthalate	96	U	96	4.2	ug/L		12/28/21 09:02	12/29/21 20:40	10
Dimethyl phthalate	96	U *+	96	6.9	ug/L		12/28/21 09:02	12/29/21 20:40	10
Di-n-butyl phthalate	96	U	96	6.0	ug/L		12/28/21 09:02	12/29/21 20:40	10
Di-n-octyl phthalate	96	U	96	9.0	ug/L		12/28/21 09:02	12/29/21 20:40	10
Fluoranthene	**8.8**	**J**	96	7.7	ug/L		12/28/21 09:02	12/29/21 20:40	10
Fluorene	96	U *+	96	6.9	ug/L		12/28/21 09:02	12/29/21 20:40	10
Hexachlorobenzene	96	U	96	9.8	ug/L		12/28/21 09:02	12/29/21 20:40	10
Hexachlorobutadiene	96	U	96	13	ug/L		12/28/21 09:02	12/29/21 20:40	10
Hexachlorocyclopentadiene	96	U	96	11	ug/L		12/28/21 09:02	12/29/21 20:40	10
Hexachloroethane	96	U	96	11	ug/L		12/28/21 09:02	12/29/21 20:40	10
Indeno[1,2,3-cd]pyrene	96	U	96	9.0	ug/L		12/28/21 09:02	12/29/21 20:40	10
Isophorone	96	U	96	8.3	ug/L		12/28/21 09:02	12/29/21 20:40	10
Naphthalene	**29**	**J**	96	15	ug/L		12/28/21 09:02	12/29/21 20:40	10
Nitrobenzene	96	U	96	5.6	ug/L		12/28/21 09:02	12/29/21 20:40	10
N-Nitrosodi-n-propylamine	96	U	96	10	ug/L		12/28/21 09:02	12/29/21 20:40	10
N-Nitrosodiphenylamine	96	U	96	9.8	ug/L		12/28/21 09:02	12/29/21 20:40	10
Pentachlorophenol	190	U	190	42	ug/L		12/28/21 09:02	12/29/21 20:40	10
Phenanthrene	96	U	96	8.5	ug/L		12/28/21 09:02	12/29/21 20:40	10
Phenol	96	U	96	7.5	ug/L		12/28/21 09:02	12/29/21 20:40	10
Pyrene	**7.7**	**J**	96	6.5	ug/L		12/28/21 09:02	12/29/21 20:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*111*		*41 - 120*	*12/28/21 09:02*	*12/29/21 20:40*	*10*
2-Fluorobiphenyl (Surr)	*123*	*S1+*	*48 - 120*	*12/28/21 09:02*	*12/29/21 20:40*	*10*
2-Fluorophenol (Surr)	*95*		*35 - 120*	*12/28/21 09:02*	*12/29/21 20:40*	*10*
Nitrobenzene-d5 (Surr)	*135*	*S1+*	*46 - 120*	*12/28/21 09:02*	*12/29/21 20:40*	*10*
Phenol-d5 (Surr)	*89*		*22 - 120*	*12/28/21 09:02*	*12/29/21 20:40*	*10*
p-Terphenyl-d14 (Surr)	*101*		*60 - 148*	*12/28/21 09:02*	*12/29/21 20:40*	*10*

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: TMW2
Lab Sample ID: 480-193741-20
Date Collected: 12/21/21 10:30
Matrix: Water
Date Received: 12/22/21 14:57

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/23/21 18:14	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/23/21 18:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/23/21 18:14	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/23/21 18:14	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/23/21 18:14	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/23/21 18:14	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/23/21 18:14	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/23/21 18:14	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/23/21 18:14	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/23/21 18:14	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/23/21 18:14	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/23/21 18:14	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/23/21 18:14	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/23/21 18:14	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/23/21 18:14	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/23/21 18:14	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/23/21 18:14	1
Acetone	**4.4**	**J**	10	3.0	ug/L			12/23/21 18:14	1
Benzene	**0.51**	**J**	1.0	0.41	ug/L			12/23/21 18:14	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/23/21 18:14	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/23/21 18:14	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/23/21 18:14	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/23/21 18:14	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/23/21 18:14	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/23/21 18:14	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/23/21 18:14	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/23/21 18:14	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/23/21 18:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/23/21 18:14	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/23/21 18:14	1
Cyclohexane	**1.0**		1.0	0.18	ug/L			12/23/21 18:14	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/23/21 18:14	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/23/21 18:14	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/23/21 18:14	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/23/21 18:14	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/23/21 18:14	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/23/21 18:14	1
Methylcyclohexane	**2.0**		1.0	0.16	ug/L			12/23/21 18:14	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/23/21 18:14	1
Styrene	1.0	U	1.0	0.73	ug/L			12/23/21 18:14	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/23/21 18:14	1
Toluene	**0.84**	**J**	1.0	0.51	ug/L			12/23/21 18:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/23/21 18:14	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/23/21 18:14	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/23/21 18:14	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/23/21 18:14	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/23/21 18:14	1
Xylenes, Total	**0.71**	**J**	2.0	0.66	ug/L			12/23/21 18:14	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: TMW2
Lab Sample ID: 480-193741-20
Date Collected: 12/21/21 10:30
Matrix: Water
Date Received: 12/22/21 14:57

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		12/23/21 18:14	1
4-Bromofluorobenzene (Surr)	101		73 - 120		12/23/21 18:14	1
Dibromofluoromethane (Surr)	97		75 - 123		12/23/21 18:14	1
Toluene-d8 (Surr)	98		80 - 120		12/23/21 18:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	5.4	U	5.4	0.52	ug/L		12/28/21 09:02	12/29/21 21:08	1
2,4,6-Trichlorophenol	5.4	U	5.4	0.66	ug/L		12/28/21 09:02	12/29/21 21:08	1
2,4-Dichlorophenol	5.4	U	5.4	0.55	ug/L		12/28/21 09:02	12/29/21 21:08	1
2,4-Dimethylphenol	5.4	U	5.4	0.54	ug/L		12/28/21 09:02	12/29/21 21:08	1
2,4-Dinitrophenol	11	U	11	2.4	ug/L		12/28/21 09:02	12/29/21 21:08	1
2,4-Dinitrotoluene	5.4	U *+	5.4	0.49	ug/L		12/28/21 09:02	12/29/21 21:08	1
2,6-Dinitrotoluene	5.4	U *+	5.4	0.43	ug/L		12/28/21 09:02	12/29/21 21:08	1
2-Chloronaphthalene	5.4	U	5.4	0.50	ug/L		12/28/21 09:02	12/29/21 21:08	1
2-Chlorophenol	5.4	U	5.4	0.58	ug/L		12/28/21 09:02	12/29/21 21:08	1
2-Methylnaphthalene	5.4	U	5.4	0.65	ug/L		12/28/21 09:02	12/29/21 21:08	1
2-Methylphenol	5.4	U	5.4	0.43	ug/L		12/28/21 09:02	12/29/21 21:08	1
2-Nitroaniline	11	U	11	0.46	ug/L		12/28/21 09:02	12/29/21 21:08	1
2-Nitrophenol	5.4	U	5.4	0.52	ug/L		12/28/21 09:02	12/29/21 21:08	1
3,3'-Dichlorobenzidine	5.4	U	5.4	0.43	ug/L		12/28/21 09:02	12/29/21 21:08	1
3-Nitroaniline	11	U	11	0.52	ug/L		12/28/21 09:02	12/29/21 21:08	1
4,6-Dinitro-2-methylphenol	11	U	11	2.4	ug/L		12/28/21 09:02	12/29/21 21:08	1
4-Bromophenyl phenyl ether	5.4	U	5.4	0.49	ug/L		12/28/21 09:02	12/29/21 21:08	1
4-Chloro-3-methylphenol	5.4	U	5.4	0.49	ug/L		12/28/21 09:02	12/29/21 21:08	1
4-Chloroaniline	5.4	U	5.4	0.64	ug/L		12/28/21 09:02	12/29/21 21:08	1
4-Chlorophenyl phenyl ether	5.4	U	5.4	0.38	ug/L		12/28/21 09:02	12/29/21 21:08	1
4-Methylphenol	11	U	11	0.39	ug/L		12/28/21 09:02	12/29/21 21:08	1
4-Nitroaniline	11	U *+	11	0.27	ug/L		12/28/21 09:02	12/29/21 21:08	1
4-Nitrophenol	11	U	11	1.7	ug/L		12/28/21 09:02	12/29/21 21:08	1
Acenaphthene	5.4	U	5.4	0.45	ug/L		12/28/21 09:02	12/29/21 21:08	1
Acenaphthylene	5.4	U	5.4	0.41	ug/L		12/28/21 09:02	12/29/21 21:08	1
Acetophenone	5.4	U	5.4	0.59	ug/L		12/28/21 09:02	12/29/21 21:08	1
Anthracene	5.4	U *+	5.4	0.30	ug/L		12/28/21 09:02	12/29/21 21:08	1
Atrazine	5.4	U	5.4	0.50	ug/L		12/28/21 09:02	12/29/21 21:08	1
Benzaldehyde	5.4	U	5.4	0.29	ug/L		12/28/21 09:02	12/29/21 21:08	1
Benzo[a]anthracene	5.4	U	5.4	0.39	ug/L		12/28/21 09:02	12/29/21 21:08	1
Benzo[a]pyrene	5.4	U	5.4	0.51	ug/L		12/28/21 09:02	12/29/21 21:08	1
Benzo[b]fluoranthene	5.4	U	5.4	0.37	ug/L		12/28/21 09:02	12/29/21 21:08	1
Benzo[g,h,i]perylene	5.4	U	5.4	0.38	ug/L		12/28/21 09:02	12/29/21 21:08	1
Benzo[k]fluoranthene	5.4	U	5.4	0.79	ug/L		12/28/21 09:02	12/29/21 21:08	1
Biphenyl	5.4	U	5.4	0.71	ug/L		12/28/21 09:02	12/29/21 21:08	1
bis (2-chloroisopropyl) ether	5.4	U	5.4	0.57	ug/L		12/28/21 09:02	12/29/21 21:08	1
Bis(2-chloroethoxy)methane	5.4	U	5.4	0.38	ug/L		12/28/21 09:02	12/29/21 21:08	1
Bis(2-chloroethyl)ether	5.4	U	5.4	0.43	ug/L		12/28/21 09:02	12/29/21 21:08	1
Bis(2-ethylhexyl) phthalate	5.4	U	5.4	2.4	ug/L		12/28/21 09:02	12/29/21 21:08	1
Butyl benzyl phthalate	5.4	U	5.4	1.1	ug/L		12/28/21 09:02	12/29/21 21:08	1
Caprolactam	5.4	U	5.4	2.4	ug/L		12/28/21 09:02	12/29/21 21:08	1
Carbazole	5.4	U *+	5.4	0.33	ug/L		12/28/21 09:02	12/29/21 21:08	1
Chrysene	5.4	U	5.4	0.36	ug/L		12/28/21 09:02	12/29/21 21:08	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: TMW2
Lab Sample ID: 480-193741-20
Date Collected: 12/21/21 10:30
Matrix: Water
Date Received: 12/22/21 14:57

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	5.4	U	5.4	0.46	ug/L		12/28/21 09:02	12/29/21 21:08	1
Dibenzofuran	11	U	11	0.55	ug/L		12/28/21 09:02	12/29/21 21:08	1
Diethyl phthalate	5.4	U	5.4	0.24	ug/L		12/28/21 09:02	12/29/21 21:08	1
Dimethyl phthalate	5.4	U *+	5.4	0.39	ug/L		12/28/21 09:02	12/29/21 21:08	1
Di-n-butyl phthalate	5.4	U	5.4	0.34	ug/L		12/28/21 09:02	12/29/21 21:08	1
Di-n-octyl phthalate	5.4	U	5.4	0.51	ug/L		12/28/21 09:02	12/29/21 21:08	1
Fluoranthene	5.4	U	5.4	0.43	ug/L		12/28/21 09:02	12/29/21 21:08	1
Fluorene	5.4	U *+	5.4	0.39	ug/L		12/28/21 09:02	12/29/21 21:08	1
Hexachlorobenzene	5.4	U	5.4	0.55	ug/L		12/28/21 09:02	12/29/21 21:08	1
Hexachlorobutadiene	5.4	U	5.4	0.74	ug/L		12/28/21 09:02	12/29/21 21:08	1
Hexachlorocyclopentadiene	5.4	U	5.4	0.64	ug/L		12/28/21 09:02	12/29/21 21:08	1
Hexachloroethane	5.4	U	5.4	0.64	ug/L		12/28/21 09:02	12/29/21 21:08	1
Indeno[1,2,3-cd]pyrene	5.4	U	5.4	0.51	ug/L		12/28/21 09:02	12/29/21 21:08	1
Isophorone	5.4	U	5.4	0.47	ug/L		12/28/21 09:02	12/29/21 21:08	1
Naphthalene	5.4	U	5.4	0.83	ug/L		12/28/21 09:02	12/29/21 21:08	1
Nitrobenzene	5.4	U	5.4	0.32	ug/L		12/28/21 09:02	12/29/21 21:08	1
N-Nitrosodi-n-propylamine	5.4	U	5.4	0.59	ug/L		12/28/21 09:02	12/29/21 21:08	1
N-Nitrosodiphenylamine	5.4	U	5.4	0.55	ug/L		12/28/21 09:02	12/29/21 21:08	1
Pentachlorophenol	11	U	11	2.4	ug/L		12/28/21 09:02	12/29/21 21:08	1
Phenanthrene	5.4	U	5.4	0.48	ug/L		12/28/21 09:02	12/29/21 21:08	1
Phenol	5.4	U	5.4	0.42	ug/L		12/28/21 09:02	12/29/21 21:08	1
Pyrene	5.4	U	5.4	0.37	ug/L		12/28/21 09:02	12/29/21 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*111*		*41 - 120*	*12/28/21 09:02*	*12/29/21 21:08*	*1*
2-Fluorobiphenyl (Surr)	*110*		*48 - 120*	*12/28/21 09:02*	*12/29/21 21:08*	*1*
2-Fluorophenol (Surr)	*84*		*35 - 120*	*12/28/21 09:02*	*12/29/21 21:08*	*1*
Nitrobenzene-d5 (Surr)	*99*		*46 - 120*	*12/28/21 09:02*	*12/29/21 21:08*	*1*
Phenol-d5 (Surr)	*62*		*22 - 120*	*12/28/21 09:02*	*12/29/21 21:08*	*1*
p-Terphenyl-d14 (Surr)	*104*		*60 - 148*	*12/28/21 09:02*	*12/29/21 21:08*	*1*

Client Sample ID: TMW3
Lab Sample ID: 480-193741-21
Date Collected: 12/21/21 11:45
Matrix: Water
Date Received: 12/22/21 14:57

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/23/21 18:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/23/21 18:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/23/21 18:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/23/21 18:36	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/23/21 18:36	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/23/21 18:36	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/23/21 18:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/23/21 18:36	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/23/21 18:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/23/21 18:36	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/23/21 18:36	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/23/21 18:36	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/23/21 18:36	1

Client Sample ID: TMW3

Lab Sample ID: 480-193741-21

Date Collected: 12/21/21 11:45

Matrix: Water

Date Received: 12/22/21 14:57

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/23/21 18:36	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/23/21 18:36	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/23/21 18:36	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/23/21 18:36	1
Acetone	**3.2**	**J**	10	3.0	ug/L			12/23/21 18:36	1
Benzene	**0.54**	**J**	1.0	0.41	ug/L			12/23/21 18:36	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/23/21 18:36	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/23/21 18:36	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/23/21 18:36	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/23/21 18:36	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/23/21 18:36	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/23/21 18:36	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/23/21 18:36	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/23/21 18:36	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/23/21 18:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/23/21 18:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/23/21 18:36	1
Cyclohexane	**0.35**	**J**	1.0	0.18	ug/L			12/23/21 18:36	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/23/21 18:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/23/21 18:36	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/23/21 18:36	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/23/21 18:36	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/23/21 18:36	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/23/21 18:36	1
Methylcyclohexane	**0.27**	**J**	1.0	0.16	ug/L			12/23/21 18:36	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/23/21 18:36	1
Styrene	1.0	U	1.0	0.73	ug/L			12/23/21 18:36	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/23/21 18:36	1
Toluene	**0.57**	**J**	1.0	0.51	ug/L			12/23/21 18:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/23/21 18:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/23/21 18:36	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/23/21 18:36	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/23/21 18:36	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/23/21 18:36	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/23/21 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*12/23/21 18:36*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*12/23/21 18:36*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*12/23/21 18:36*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/23/21 18:36*	*1*

Client Sample ID: TMW4

Lab Sample ID: 480-193741-22

Date Collected: 12/21/21 12:30

Matrix: Water

Date Received: 12/22/21 14:57

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/23/21 18:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/23/21 18:59	1

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: TMW4
Lab Sample ID: 480-193741-22
Date Collected: 12/21/21 12:30
Matrix: Water
Date Received: 12/22/21 14:57

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/23/21 18:59	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/23/21 18:59	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/23/21 18:59	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/23/21 18:59	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/23/21 18:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/23/21 18:59	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/23/21 18:59	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/23/21 18:59	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/23/21 18:59	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/23/21 18:59	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/23/21 18:59	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/23/21 18:59	1
2-Butanone (MEK)	**1.6**	**J**	10	1.3	ug/L			12/23/21 18:59	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/23/21 18:59	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/23/21 18:59	1
Acetone	**7.7**	**J**	10	3.0	ug/L			12/23/21 18:59	1
Benzene	**0.41**	**J**	1.0	0.41	ug/L			12/23/21 18:59	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/23/21 18:59	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/23/21 18:59	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/23/21 18:59	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/23/21 18:59	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/23/21 18:59	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/23/21 18:59	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/23/21 18:59	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/23/21 18:59	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/23/21 18:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/23/21 18:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/23/21 18:59	1
Cyclohexane	**0.21**	**J**	1.0	0.18	ug/L			12/23/21 18:59	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/23/21 18:59	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/23/21 18:59	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/23/21 18:59	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/23/21 18:59	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/23/21 18:59	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/23/21 18:59	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/23/21 18:59	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/23/21 18:59	1
Styrene	1.0	U	1.0	0.73	ug/L			12/23/21 18:59	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/23/21 18:59	1
Toluene	1.0	U	1.0	0.51	ug/L			12/23/21 18:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/23/21 18:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/23/21 18:59	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/23/21 18:59	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/23/21 18:59	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/23/21 18:59	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/23/21 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*12/23/21 18:59*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*12/23/21 18:59*	*1*

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: TMW4
Lab Sample ID: 480-193741-22
Date Collected: 12/21/21 12:30
Matrix: Water
Date Received: 12/22/21 14:57

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		75 - 123		12/23/21 18:59	1
Toluene-d8 (Surr)	101		80 - 120		12/23/21 18:59	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(53-146)	(49-148)	(50-149)	(60-140)
480-193741-1	B1S2	102	92	89	96
480-193741-2	B1S3	99	88	86	95
LCS 480-610229/1-A	Lab Control Sample	93	103	97	91
MB 480-610229/2-A	Method Blank	99	99	96	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-193741-3	B2S2	110	104	100	114
480-193741-5	B3S3	108	101	102	113
LCS 480-610053/1-A	Lab Control Sample	107	111	101	104
LCSD 480-610053/2-A	Lab Control Sample Dup	103	106	97	107
MB 480-610053/3-A	Method Blank	102	103	98	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-193741-19	TMW1	106	91	99	89
480-193741-20	TMW2	100	101	97	98
480-193741-21	TMW3	102	99	101	102
480-193741-22	TMW4	100	100	100	101
LCS 480-609984/5	Lab Control Sample	99	102	99	100
MB 480-609984/8	Method Blank	101	102	100	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(54-120)	(79-130)
480-193741-1	B1S2	83	101	78	82	84	106
480-193741-3	B2S2	0 S1-	97	0 S1-	0 S1-	0 S1-	108
480-193741-4	B3S1	71	88	68	69	72	90
480-193741-6	B4S1	96	104	82	80	87	107
480-193741-7	B5S1	94	98	78	81	81	101
480-193741-8	B6S1	105	101	85	83	86	106
480-193741-9	B7S1	90	89	73	73	78	91
480-193741-10	B8S1	92	98	80	80	82	100
480-193741-11	B9S1	81	79	67	63	63	82
480-193741-12	B10S1	92	100	81	81	80	98
480-193741-13	B11S1	93	100	81	82	80	100
480-193741-14	B12S1	0 S1-	89	0 S1-	0 S1-	0 S1-	0 S1-
480-193741-15	B13S1	0 S1-	99	0 S1-	0 S1-	0 S1-	0 S1-
480-193741-16	B14S1	0 S1-	97	55	71	70	107
480-193741-16 MS	B14S1	114	113	81	84	87	115
480-193741-16 MSD	B14S1	83	105	75	84	85	110
480-193741-17	B15S1	0 S1-	98	0 S1-	0 S1-	0 S1-	0 S1-
480-193741-18	B16S1	0 S1-	96	0 S1-	0 S1-	0 S1-	97
LCS 480-610450/2-A	Lab Control Sample	116	97	83	83	84	105
MB 480-610450/1-A	Method Blank	90	92	77	76	78	101

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(60-148)
480-193741-19	TMW1	111	123 S1+	95	135 S1+	89	101
480-193741-20	TMW2	111	110	84	99	62	104
LCS 480-610190/2-A	Lab Control Sample	119	114	80	108	62	111
LCSD 480-610190/3-A	Lab Control Sample Dup	121 S1+	119	84	113	63	112
MB 480-610190/1-A	Method Blank	107	117	81	103	59	121

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-609984/8
Matrix: Water
Analysis Batch: 609984

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/23/21 14:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/23/21 14:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/23/21 14:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/23/21 14:01	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/23/21 14:01	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/23/21 14:01	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/23/21 14:01	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/23/21 14:01	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/23/21 14:01	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/23/21 14:01	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/23/21 14:01	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/23/21 14:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/23/21 14:01	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/23/21 14:01	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/23/21 14:01	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/23/21 14:01	1
Acetone	10	U	10	3.0	ug/L			12/23/21 14:01	1
Benzene	1.0	U	1.0	0.41	ug/L			12/23/21 14:01	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/23/21 14:01	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/23/21 14:01	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/23/21 14:01	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/23/21 14:01	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/23/21 14:01	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/23/21 14:01	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/23/21 14:01	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/23/21 14:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/23/21 14:01	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/23/21 14:01	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/23/21 14:01	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/23/21 14:01	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/23/21 14:01	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/23/21 14:01	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/23/21 14:01	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/23/21 14:01	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/23/21 14:01	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/23/21 14:01	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/23/21 14:01	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/23/21 14:01	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/23/21 14:01	1
Toluene	1.0	U	1.0	0.51	ug/L			12/23/21 14:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/23/21 14:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/23/21 14:01	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/23/21 14:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/23/21 14:01	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/23/21 14:01	1
Styrene	1.0	U	1.0	0.73	ug/L			12/23/21 14:01	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/23/21 14:01	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/23/21 14:01	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-609984/8
Matrix: Water
Analysis Batch: 609984

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*12/23/21 14:01*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*12/23/21 14:01*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/23/21 14:01*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*12/23/21 14:01*	*1*

Lab Sample ID: LCS 480-609984/5
Matrix: Water
Analysis Batch: 609984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	24.8		ug/L		99	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.1		ug/L		100	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.0		ug/L		96	61 - 148
1,1,2-Trichloroethane	25.0	25.6		ug/L		102	76 - 122
1,1-Dichloroethane	25.0	24.1		ug/L		97	77 - 120
1,1-Dichloroethene	25.0	25.0		ug/L		100	66 - 127
1,2,4-Trichlorobenzene	25.0	25.0		ug/L		100	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.5		ug/L		102	56 - 134
1,2-Dichlorobenzene	25.0	24.6		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	23.8		ug/L		95	75 - 120
1,2-Dichloropropane	25.0	25.0		ug/L		100	76 - 120
1,3-Dichlorobenzene	25.0	25.1		ug/L		100	77 - 120
1,4-Dichlorobenzene	25.0	24.6		ug/L		98	80 - 120
2-Butanone (MEK)	125	125		ug/L		100	57 - 140
2-Hexanone	125	128		ug/L		102	65 - 127
4-Methyl-2-pentanone (MIBK)	125	126		ug/L		101	71 - 125
Acetone	125	122		ug/L		98	56 - 142
Benzene	25.0	24.4		ug/L		98	71 - 124
Bromoform	25.0	27.6		ug/L		110	61 - 132
Bromomethane	25.0	25.0		ug/L		100	55 - 144
Carbon disulfide	25.0	24.0		ug/L		96	59 - 134
Carbon tetrachloride	25.0	25.8		ug/L		103	72 - 134
Chlorobenzene	25.0	25.1		ug/L		100	80 - 120
Chloroethane	25.0	23.2		ug/L		93	69 - 136
Chloroform	25.0	23.5		ug/L		94	73 - 127
Chloromethane	25.0	22.9		ug/L		91	68 - 124
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	74 - 124
Bromodichloromethane	25.0	25.5		ug/L		102	80 - 122
Cyclohexane	25.0	23.7		ug/L		95	59 - 135
Dibromochloromethane	25.0	26.6		ug/L		106	75 - 125
1,2-Dibromoethane	25.0	25.7		ug/L		103	77 - 120
Dichlorodifluoromethane	25.0	24.7		ug/L		99	59 - 135
Ethylbenzene	25.0	25.5		ug/L		102	77 - 123
Isopropylbenzene	25.0	24.8		ug/L		99	77 - 122
Methyl acetate	50.0	47.5		ug/L		95	74 - 133
Methyl tert-butyl ether	25.0	24.8		ug/L		99	77 - 120
Methylcyclohexane	25.0	24.0		ug/L		96	68 - 134
Methylene Chloride	25.0	24.9		ug/L		100	75 - 124

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-609984/5
Matrix: Water
Analysis Batch: 609984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	24.5		ug/L		98	74 - 122
Toluene	25.0	24.6		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	73 - 127
trans-1,3-Dichloropropene	25.0	26.8		ug/L		107	80 - 120
Trichloroethene	25.0	24.6		ug/L		98	74 - 123
cis-1,3-Dichloropropene	25.0	26.9		ug/L		108	74 - 124
Trichlorofluoromethane	25.0	25.9		ug/L		104	62 - 150
Styrene	25.0	26.4		ug/L		106	80 - 120
Vinyl chloride	25.0	25.2		ug/L		101	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

Lab Sample ID: MB 480-610053/3-A
Matrix: Solid
Analysis Batch: 610055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610053

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.36	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.30	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
1,2-Dichloropropane	5.0	U	5.0	2.5	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
2-Hexanone	25	U	25	2.5	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
4-Methyl-2-pentanone (MIBK)	25	U	25	1.6	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Acetone	25	U	25	4.2	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Benzene	5.0	U	5.0	0.25	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Bromoform	5.0	U	5.0	2.5	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Bromomethane	5.0	U	5.0	0.45	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Carbon disulfide	5.0	U	5.0	2.5	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Chloroethane	5.0	U	5.0	1.1	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Chloroform	5.0	U	5.0	0.31	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Chloromethane	5.0	U	5.0	0.30	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		12/26/21 06:11	12/26/21 10:33	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-610053/3-A
Matrix: Solid
Analysis Batch: 610055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610053

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	5.0	U	5.0	0.67	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Cyclohexane	5.0	U	5.0	0.70	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Dibromochloromethane	5.0	U	5.0	0.64	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
1,2-Dibromoethane	5.0	U	5.0	0.64	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Dichlorodifluoromethane	5.0	U	5.0	0.41	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Isopropylbenzene	5.0	U	5.0	0.75	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Methyl acetate	25	U	25	3.0	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Methylcyclohexane	5.0	U	5.0	0.76	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Methylene Chloride	5.0	U	5.0	2.3	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Toluene	5.0	U	5.0	0.38	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
trans-1,3-Dichloropropene	5.0	U	5.0	2.2	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.72	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Trichlorofluoromethane	5.0	U	5.0	0.47	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Styrene	5.0	U	5.0	0.25	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		12/26/21 06:11	12/26/21 10:33	1
Xylenes, Total	10	U	10	0.84	ug/Kg		12/26/21 06:11	12/26/21 10:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 126*	*12/26/21 06:11*	*12/26/21 10:33*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 126*	*12/26/21 06:11*	*12/26/21 10:33*	*1*
Toluene-d8 (Surr)	*98*		*71 - 125*	*12/26/21 06:11*	*12/26/21 10:33*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*	*12/26/21 06:11*	*12/26/21 10:33*	*1*

Lab Sample ID: LCS 480-610053/1-A
Matrix: Solid
Analysis Batch: 610055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610053

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	51.4		ug/Kg		103	77 - 121
1,1,2,2-Tetrachloroethane	50.0	47.3		ug/Kg		95	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.6		ug/Kg		93	60 - 140
1,1,2-Trichloroethane	50.0	48.9		ug/Kg		98	78 - 122
1,1-Dichloroethane	50.0	46.1		ug/Kg		92	73 - 126
1,1-Dichloroethene	50.0	49.0		ug/Kg		98	59 - 125
1,2,4-Trichlorobenzene	50.0	46.5		ug/Kg		93	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	44.8		ug/Kg		90	63 - 124
1,2-Dichlorobenzene	50.0	46.2		ug/Kg		92	75 - 120
1,2-Dichloroethane	50.0	47.2		ug/Kg		94	77 - 122
1,2-Dichloropropane	50.0	45.8		ug/Kg		92	75 - 124
1,3-Dichlorobenzene	50.0	46.4		ug/Kg		93	74 - 120
1,4-Dichlorobenzene	50.0	46.6		ug/Kg		93	73 - 120
2-Butanone (MEK)	250	437	*+	ug/Kg		175	70 - 134
2-Hexanone	250	253		ug/Kg		101	59 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-610053/1-A
Matrix: Solid
Analysis Batch: 610055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610053

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
4-Methyl-2-pentanone (MIBK)			250	241		ug/Kg		96	65 - 133		
Acetone			250	252		ug/Kg		101	61 - 137		
Benzene			50.0	45.3		ug/Kg		91	79 - 127		
Bromoform			50.0	56.8		ug/Kg		114	68 - 126		
Bromomethane			50.0	60.1		ug/Kg		120	37 - 149		
Carbon disulfide			50.0	46.3		ug/Kg		93	64 - 131		
Carbon tetrachloride			50.0	63.6		ug/Kg		127	75 - 135		
Chlorobenzene			50.0	48.1		ug/Kg		96	76 - 124		
Chloroethane			50.0	46.5		ug/Kg		93	69 - 135		
Chloroform			50.0	50.1		ug/Kg		100	80 - 120		
Chloromethane			50.0	49.9		ug/Kg		100	63 - 127		
cis-1,2-Dichloroethene			50.0	49.4		ug/Kg		99	81 - 120		
Bromodichloromethane			50.0	55.0		ug/Kg		110	80 - 122		
Cyclohexane			50.0	41.3		ug/Kg		83	65 - 120		
Dibromochloromethane			50.0	53.4		ug/Kg		107	76 - 125		
1,2-Dibromoethane			50.0	49.5		ug/Kg		99	78 - 120		
Dichlorodifluoromethane			50.0	49.5		ug/Kg		99	57 - 142		
Ethylbenzene			50.0	47.5		ug/Kg		95	80 - 120		
Isopropylbenzene			50.0	46.3		ug/Kg		93	72 - 120		
Methyl acetate			100	98.4		ug/Kg		98	55 - 136		
Methyl tert-butyl ether			50.0	39.4		ug/Kg		79	63 - 125		
Methylcyclohexane			50.0	45.1		ug/Kg		90	60 - 140		
Methylene Chloride			50.0	44.9		ug/Kg		90	61 - 127		
Tetrachloroethene			50.0	53.6		ug/Kg		107	74 - 122		
Toluene			50.0	45.7		ug/Kg		91	74 - 128		
trans-1,2-Dichloroethene			50.0	49.1		ug/Kg		98	78 - 126		
trans-1,3-Dichloropropene			50.0	52.5		ug/Kg		105	73 - 123		
Trichloroethene			50.0	49.0		ug/Kg		98	77 - 129		
cis-1,3-Dichloropropene			50.0	51.0		ug/Kg		102	80 - 120		
Trichlorofluoromethane			50.0	57.1		ug/Kg		114	65 - 146		
Styrene			50.0	47.9		ug/Kg		96	80 - 120		
Vinyl chloride			50.0	51.0		ug/Kg		102	61 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*64 - 126*
4-Bromofluorobenzene (Surr)	*111*		*72 - 126*
Toluene-d8 (Surr)	*101*		*71 - 125*
Dibromofluoromethane (Surr)	*104*		*60 - 140*

Lab Sample ID: LCSD 480-610053/2-A
Matrix: Solid
Analysis Batch: 610055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 610053

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	48.6		ug/Kg		97	77 - 121	5	20
1,1,2,2-Tetrachloroethane			50.0	47.0		ug/Kg		94	80 - 120	0	20
1,1,2-Trichloro-1,2,2-trifluoroetha ne			50.0	44.3		ug/Kg		89	60 - 140	5	20
1,1,2-Trichloroethane			50.0	49.3		ug/Kg		99	78 - 122	1	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-610053/2-A
Matrix: Solid
Analysis Batch: 610055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 610053

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane			50.0	45.7		ug/Kg		91	73 - 126	1	20
1,1-Dichloroethene			50.0	43.2		ug/Kg		86	59 - 125	13	20
1,2,4-Trichlorobenzene			50.0	48.1		ug/Kg		96	64 - 120	3	20
1,2-Dibromo-3-Chloropropane			50.0	47.5		ug/Kg		95	63 - 124	6	20
1,2-Dichlorobenzene			50.0	44.5		ug/Kg		89	75 - 120	4	20
1,2-Dichloroethane			50.0	46.8		ug/Kg		94	77 - 122	1	20
1,2-Dichloropropane			50.0	48.3		ug/Kg		97	75 - 124	5	20
1,3-Dichlorobenzene			50.0	44.2		ug/Kg		88	74 - 120	5	20
1,4-Dichlorobenzene			50.0	45.9		ug/Kg		92	73 - 120	2	20
2-Butanone (MEK)			250	443	*+	ug/Kg		177	70 - 134	1	20
2-Hexanone			250	282		ug/Kg		113	59 - 130	11	20
4-Methyl-2-pentanone (MIBK)			250	252		ug/Kg		101	65 - 133	5	20
Acetone			250	254		ug/Kg		102	61 - 137	1	20
Benzene			50.0	42.6		ug/Kg		85	79 - 127	6	20
Bromoform			50.0	58.7		ug/Kg		117	68 - 126	3	20
Bromomethane			50.0	58.1		ug/Kg		116	37 - 149	3	20
Carbon disulfide			50.0	40.5		ug/Kg		81	64 - 131	13	20
Carbon tetrachloride			50.0	58.7		ug/Kg		117	75 - 135	8	20
Chlorobenzene			50.0	47.0		ug/Kg		94	76 - 124	2	20
Chloroethane			50.0	39.3		ug/Kg		79	69 - 135	17	20
Chloroform			50.0	48.1		ug/Kg		96	80 - 120	4	20
Chloromethane			50.0	47.5		ug/Kg		95	63 - 127	5	20
cis-1,2-Dichloroethene			50.0	44.2		ug/Kg		88	81 - 120	11	20
Bromodichloromethane			50.0	58.1		ug/Kg		116	80 - 122	5	20
Cyclohexane			50.0	36.1		ug/Kg		72	65 - 120	13	20
Dibromochloromethane			50.0	54.8		ug/Kg		110	76 - 125	3	20
1,2-Dibromoethane			50.0	53.5		ug/Kg		107	78 - 120	8	20
Dichlorodifluoromethane			50.0	48.4		ug/Kg		97	57 - 142	2	20
Ethylbenzene			50.0	45.8		ug/Kg		92	80 - 120	4	20
Isopropylbenzene			50.0	41.6		ug/Kg		83	72 - 120	11	20
Methyl acetate			100	95.4		ug/Kg		95	55 - 136	3	20
Methyl tert-butyl ether			50.0	40.7		ug/Kg		81	63 - 125	3	20
Methylcyclohexane			50.0	41.4		ug/Kg		83	60 - 140	9	20
Methylene Chloride			50.0	37.6		ug/Kg		75	61 - 127	18	20
Tetrachloroethene			50.0	51.1		ug/Kg		102	74 - 122	5	20
Toluene			50.0	45.0		ug/Kg		90	74 - 128	2	20
trans-1,2-Dichloroethene			50.0	45.5		ug/Kg		91	78 - 126	7	20
trans-1,3-Dichloropropene			50.0	50.8		ug/Kg		102	73 - 123	3	20
Trichloroethene			50.0	50.9		ug/Kg		102	77 - 129	4	20
cis-1,3-Dichloropropene			50.0	54.5		ug/Kg		109	80 - 120	7	20
Trichlorofluoromethane			50.0	52.0		ug/Kg		104	65 - 146	9	20
Styrene			50.0	47.2		ug/Kg		94	80 - 120	1	20
Vinyl chloride			50.0	48.9		ug/Kg		98	61 - 133	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*
4-Bromofluorobenzene (Surr)	*106*		*72 - 126*
Toluene-d8 (Surr)	*97*		*71 - 125*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-610053/2-A
Matrix: Solid
Analysis Batch: 610055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 610053

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	107		60 - 140

Lab Sample ID: MB 480-610229/2-A
Matrix: Solid
Analysis Batch: 610306

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610229

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	100	U	100	28	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
1,1,2,2-Tetrachloroethane	100	U	100	16	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	100	U	100	50	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
1,1,2-Trichloroethane	100	U	100	21	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
1,1-Dichloroethane	100	U	100	31	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
1,1-Dichloroethene	100	U	100	35	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
1,2,4-Trichlorobenzene	100	U	100	38	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
1,2-Dibromo-3-Chloropropane	100	U	100	50	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
1,2-Dichlorobenzene	100	U	100	26	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
1,2-Dichloroethane	100	U	100	41	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
1,2-Dichloropropane	100	U	100	16	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
1,3-Dichlorobenzene	100	U	100	27	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
1,4-Dichlorobenzene	100	U	100	14	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
2-Butanone (MEK)	500	U	500	300	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
2-Hexanone	500	U	500	210	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
4-Methyl-2-pentanone (MIBK)	500	U	500	32	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Acetone	500	U	500	410	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Benzene	100	U	100	19	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Bromoform	100	U	100	50	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Bromomethane	100	U	100	22	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Carbon disulfide	100	U	100	46	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Carbon tetrachloride	100	U	100	26	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Chlorobenzene	100	U	100	13	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Chloroethane	100	U	100	21	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Chloroform	100	U	100	69	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Chloromethane	100	U	100	24	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
cis-1,2-Dichloroethene	100	U	100	28	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Bromodichloromethane	100	U	100	20	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Cyclohexane	100	U	100	22	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Dibromochloromethane	100	U	100	48	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
1,2-Dibromoethane	100	U	100	18	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Dichlorodifluoromethane	100	U	100	44	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Ethylbenzene	100	U	100	29	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Isopropylbenzene	100	U	100	15	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Methyl acetate	500	U	500	48	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Methyl tert-butyl ether	100	U	100	38	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Methylcyclohexane	100	U	100	47	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Methylene Chloride	100	U	100	20	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Tetrachloroethene	100	U	100	13	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Toluene	100	U	100	27	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
trans-1,2-Dichloroethene	100	U	100	24	ug/Kg		12/28/21 11:44	12/29/21 11:35	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-610229/2-A
Matrix: Solid
Analysis Batch: 610306

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610229

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	100	U	100	9.8	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Trichloroethene	100	U	100	28	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
cis-1,3-Dichloropropene	100	U	100	24	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Trichlorofluoromethane	100	U	100	47	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Styrene	100	U	100	24	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Vinyl chloride	100	U	100	34	ug/Kg		12/28/21 11:44	12/29/21 11:35	1
Xylenes, Total	200	U	200	55	ug/Kg		12/28/21 11:44	12/29/21 11:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*53 - 146*	*12/28/21 11:44*	*12/29/21 11:35*	*1*
4-Bromofluorobenzene (Surr)	*99*		*49 - 148*	*12/28/21 11:44*	*12/29/21 11:35*	*1*
Toluene-d8 (Surr)	*96*		*50 - 149*	*12/28/21 11:44*	*12/29/21 11:35*	*1*
Dibromofluoromethane (Surr)	*94*		*60 - 140*	*12/28/21 11:44*	*12/29/21 11:35*	*1*

Lab Sample ID: LCS 480-610229/1-A
Matrix: Solid
Analysis Batch: 610306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610229

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2500	2240		ug/Kg		90	68 - 130
1,1,2,2-Tetrachloroethane	2500	2270		ug/Kg		91	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2040		ug/Kg		82	10 - 179
1,1,2-Trichloroethane	2500	2510		ug/Kg		100	80 - 120
1,1-Dichloroethane	2500	2370		ug/Kg		95	78 - 121
1,1-Dichloroethene	2500	2010		ug/Kg		80	48 - 133
1,2,4-Trichlorobenzene	2500	2440		ug/Kg		98	70 - 140
1,2-Dibromo-3-Chloropropane	2500	2270		ug/Kg		91	56 - 122
1,2-Dichlorobenzene	2500	2410		ug/Kg		96	78 - 125
1,2-Dichloroethane	2500	2320		ug/Kg		93	74 - 127
1,2-Dichloropropane	2500	2570		ug/Kg		103	80 - 120
1,3-Dichlorobenzene	2500	2480		ug/Kg		99	80 - 120
1,4-Dichlorobenzene	2500	2440		ug/Kg		98	80 - 120
2-Butanone (MEK)	12500	12400		ug/Kg		99	54 - 149
2-Hexanone	12500	12800		ug/Kg		103	59 - 127
4-Methyl-2-pentanone (MIBK)	12500	12400		ug/Kg		99	74 - 120
Acetone	12500	11700		ug/Kg		94	47 - 141
Benzene	2500	2500		ug/Kg		100	77 - 125
Bromoform	2500	2500		ug/Kg		100	48 - 125
Bromomethane	2500	1880		ug/Kg		75	39 - 149
Carbon disulfide	2500	2000		ug/Kg		80	40 - 136
Carbon tetrachloride	2500	2240		ug/Kg		90	54 - 135
Chlorobenzene	2500	2580		ug/Kg		103	76 - 126
Chloroethane	2500	1690		ug/Kg		68	23 - 150
Chloroform	2500	2350		ug/Kg		94	78 - 120
Chloromethane	2500	2960		ug/Kg		118	61 - 124
cis-1,2-Dichloroethene	2500	2390		ug/Kg		96	79 - 124
Bromodichloromethane	2500	2430		ug/Kg		97	71 - 121
Cyclohexane	2500	2070		ug/Kg		83	49 - 129

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-610229/1-A
Matrix: Solid
Analysis Batch: 610306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610229

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	2500	2420		ug/Kg		97	64 - 120
1,2-Dibromoethane	2500	2440		ug/Kg		97	80 - 120
Dichlorodifluoromethane	2500	1940		ug/Kg		78	10 - 150
Ethylbenzene	2500	2660		ug/Kg		106	78 - 124
Isopropylbenzene	2500	2530		ug/Kg		101	76 - 120
Methyl acetate	5000	4580		ug/Kg		92	71 - 123
Methyl tert-butyl ether	2500	2240		ug/Kg		90	67 - 137
Methylcyclohexane	2500	2480		ug/Kg		99	50 - 130
Methylene Chloride	2500	1980		ug/Kg		79	75 - 118
Tetrachloroethene	2500	2620		ug/Kg		105	73 - 133
Toluene	2500	2530		ug/Kg		101	75 - 124
trans-1,2-Dichloroethene	2500	2380		ug/Kg		95	74 - 129
trans-1,3-Dichloropropene	2500	2590		ug/Kg		104	73 - 120
Trichloroethene	2500	2520		ug/Kg		101	75 - 131
cis-1,3-Dichloropropene	2500	2540		ug/Kg		102	75 - 121
Trichlorofluoromethane	2500	1340		ug/Kg		54	29 - 158
Styrene	2500	2740		ug/Kg		110	80 - 120
Vinyl chloride	2500	2450		ug/Kg		98	59 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*53 - 146*
4-Bromofluorobenzene (Surr)	*103*		*49 - 148*
Toluene-d8 (Surr)	*97*		*50 - 149*
Dibromofluoromethane (Surr)	*91*		*60 - 140*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-610190/1-A
Matrix: Water
Analysis Batch: 610354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610190

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	5.0	U	5.0	0.48	ug/L		12/28/21 09:02	12/29/21 19:18	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.61	ug/L		12/28/21 09:02	12/29/21 19:18	1
2,4-Dichlorophenol	5.0	U	5.0	0.51	ug/L		12/28/21 09:02	12/29/21 19:18	1
2,4-Dimethylphenol	5.0	U	5.0	0.50	ug/L		12/28/21 09:02	12/29/21 19:18	1
2,4-Dinitrophenol	10	U	10	2.2	ug/L		12/28/21 09:02	12/29/21 19:18	1
2,4-Dinitrotoluene	5.0	U	5.0	0.45	ug/L		12/28/21 09:02	12/29/21 19:18	1
2,6-Dinitrotoluene	5.0	U	5.0	0.40	ug/L		12/28/21 09:02	12/29/21 19:18	1
2-Chloronaphthalene	5.0	U	5.0	0.46	ug/L		12/28/21 09:02	12/29/21 19:18	1
2-Chlorophenol	5.0	U	5.0	0.53	ug/L		12/28/21 09:02	12/29/21 19:18	1
2-Methylnaphthalene	5.0	U	5.0	0.60	ug/L		12/28/21 09:02	12/29/21 19:18	1
2-Methylphenol	5.0	U	5.0	0.40	ug/L		12/28/21 09:02	12/29/21 19:18	1
2-Nitroaniline	10	U	10	0.42	ug/L		12/28/21 09:02	12/29/21 19:18	1
2-Nitrophenol	5.0	U	5.0	0.48	ug/L		12/28/21 09:02	12/29/21 19:18	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.40	ug/L		12/28/21 09:02	12/29/21 19:18	1
3-Nitroaniline	10	U	10	0.48	ug/L		12/28/21 09:02	12/29/21 19:18	1
4,6-Dinitro-2-methylphenol	10	U	10	2.2	ug/L		12/28/21 09:02	12/29/21 19:18	1
4-Bromophenyl phenyl ether	5.0	U	5.0	0.45	ug/L		12/28/21 09:02	12/29/21 19:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-610190/1-A
Matrix: Water
Analysis Batch: 610354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610190

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	5.0	U	5.0	0.45	ug/L		12/28/21 09:02	12/29/21 19:18	1
4-Chloroaniline	5.0	U	5.0	0.59	ug/L		12/28/21 09:02	12/29/21 19:18	1
4-Chlorophenyl phenyl ether	5.0	U	5.0	0.35	ug/L		12/28/21 09:02	12/29/21 19:18	1
4-Methylphenol	10	U	10	0.36	ug/L		12/28/21 09:02	12/29/21 19:18	1
4-Nitroaniline	10	U	10	0.25	ug/L		12/28/21 09:02	12/29/21 19:18	1
4-Nitrophenol	10	U	10	1.5	ug/L		12/28/21 09:02	12/29/21 19:18	1
Acenaphthene	5.0	U	5.0	0.41	ug/L		12/28/21 09:02	12/29/21 19:18	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		12/28/21 09:02	12/29/21 19:18	1
Acetophenone	5.0	U	5.0	0.54	ug/L		12/28/21 09:02	12/29/21 19:18	1
Anthracene	5.0	U	5.0	0.28	ug/L		12/28/21 09:02	12/29/21 19:18	1
Atrazine	5.0	U	5.0	0.46	ug/L		12/28/21 09:02	12/29/21 19:18	1
Benzaldehyde	5.0	U	5.0	0.27	ug/L		12/28/21 09:02	12/29/21 19:18	1
Benzo[a]anthracene	5.0	U	5.0	0.36	ug/L		12/28/21 09:02	12/29/21 19:18	1
Benzo[a]pyrene	5.0	U	5.0	0.47	ug/L		12/28/21 09:02	12/29/21 19:18	1
Benzo[b]fluoranthene	5.0	U	5.0	0.34	ug/L		12/28/21 09:02	12/29/21 19:18	1
Benzo[g,h,i]perylene	5.0	U	5.0	0.35	ug/L		12/28/21 09:02	12/29/21 19:18	1
Benzo[k]fluoranthene	5.0	U	5.0	0.73	ug/L		12/28/21 09:02	12/29/21 19:18	1
Biphenyl	5.0	U	5.0	0.65	ug/L		12/28/21 09:02	12/29/21 19:18	1
bis (2-chloroisopropyl) ether	5.0	U	5.0	0.52	ug/L		12/28/21 09:02	12/29/21 19:18	1
Bis(2-chloroethoxy)methane	5.0	U	5.0	0.35	ug/L		12/28/21 09:02	12/29/21 19:18	1
Bis(2-chloroethyl)ether	5.0	U	5.0	0.40	ug/L		12/28/21 09:02	12/29/21 19:18	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.2	ug/L		12/28/21 09:02	12/29/21 19:18	1
Butyl benzyl phthalate	5.0	U	5.0	1.0	ug/L		12/28/21 09:02	12/29/21 19:18	1
Caprolactam	5.0	U	5.0	2.2	ug/L		12/28/21 09:02	12/29/21 19:18	1
Carbazole	5.0	U	5.0	0.30	ug/L		12/28/21 09:02	12/29/21 19:18	1
Chrysene	5.0	U	5.0	0.33	ug/L		12/28/21 09:02	12/29/21 19:18	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		12/28/21 09:02	12/29/21 19:18	1
Dibenzofuran	10	U	10	0.51	ug/L		12/28/21 09:02	12/29/21 19:18	1
Diethyl phthalate	5.0	U	5.0	0.22	ug/L		12/28/21 09:02	12/29/21 19:18	1
Dimethyl phthalate	5.0	U	5.0	0.36	ug/L		12/28/21 09:02	12/29/21 19:18	1
Di-n-butyl phthalate	0.352	J	5.0	0.31	ug/L		12/28/21 09:02	12/29/21 19:18	1
Di-n-octyl phthalate	5.0	U	5.0	0.47	ug/L		12/28/21 09:02	12/29/21 19:18	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		12/28/21 09:02	12/29/21 19:18	1
Fluorene	5.0	U	5.0	0.36	ug/L		12/28/21 09:02	12/29/21 19:18	1
Hexachlorobenzene	5.0	U	5.0	0.51	ug/L		12/28/21 09:02	12/29/21 19:18	1
Hexachlorobutadiene	5.0	U	5.0	0.68	ug/L		12/28/21 09:02	12/29/21 19:18	1
Hexachlorocyclopentadiene	5.0	U	5.0	0.59	ug/L		12/28/21 09:02	12/29/21 19:18	1
Hexachloroethane	5.0	U	5.0	0.59	ug/L		12/28/21 09:02	12/29/21 19:18	1
Indeno[1,2,3-cd]pyrene	5.0	U	5.0	0.47	ug/L		12/28/21 09:02	12/29/21 19:18	1
Isophorone	5.0	U	5.0	0.43	ug/L		12/28/21 09:02	12/29/21 19:18	1
Naphthalene	5.0	U	5.0	0.76	ug/L		12/28/21 09:02	12/29/21 19:18	1
Nitrobenzene	5.0	U	5.0	0.29	ug/L		12/28/21 09:02	12/29/21 19:18	1
N-Nitrosodi-n-propylamine	5.0	U	5.0	0.54	ug/L		12/28/21 09:02	12/29/21 19:18	1
N-Nitrosodiphenylamine	5.0	U	5.0	0.51	ug/L		12/28/21 09:02	12/29/21 19:18	1
Pentachlorophenol	10	U	10	2.2	ug/L		12/28/21 09:02	12/29/21 19:18	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		12/28/21 09:02	12/29/21 19:18	1
Phenol	5.0	U	5.0	0.39	ug/L		12/28/21 09:02	12/29/21 19:18	1
Pyrene	5.0	U	5.0	0.34	ug/L		12/28/21 09:02	12/29/21 19:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-610190/1-A
Matrix: Water
Analysis Batch: 610354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610190

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	107		41 - 120	12/28/21 09:02	12/29/21 19:18	1
2-Fluorobiphenyl (Surr)	117		48 - 120	12/28/21 09:02	12/29/21 19:18	1
2-Fluorophenol (Surr)	81		35 - 120	12/28/21 09:02	12/29/21 19:18	1
Nitrobenzene-d5 (Surr)	103		46 - 120	12/28/21 09:02	12/29/21 19:18	1
Phenol-d5 (Surr)	59		22 - 120	12/28/21 09:02	12/29/21 19:18	1
p-Terphenyl-d14 (Surr)	121		60 - 148	12/28/21 09:02	12/29/21 19:18	1

Lab Sample ID: LCS 480-610190/2-A
Matrix: Water
Analysis Batch: 610354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	32.0	39.1		ug/L		122	65 - 126
2,4,6-Trichlorophenol	32.0	36.3		ug/L		113	64 - 120
2,4-Dichlorophenol	32.0	36.4		ug/L		114	63 - 120
2,4-Dimethylphenol	32.0	35.9		ug/L		112	47 - 120
2,4-Dinitrophenol	64.0	74.4		ug/L		116	31 - 137
2,4-Dinitrotoluene	32.0	39.8	*+	ug/L		124	69 - 120
2,6-Dinitrotoluene	32.0	38.2		ug/L		119	68 - 120
2-Chloronaphthalene	32.0	34.4		ug/L		108	58 - 120
2-Chlorophenol	32.0	32.8		ug/L		103	48 - 120
2-Methylnaphthalene	32.0	32.0		ug/L		100	59 - 120
2-Methylphenol	32.0	31.5		ug/L		98	39 - 120
2-Nitroaniline	32.0	38.0		ug/L		119	54 - 127
2-Nitrophenol	32.0	34.6		ug/L		108	52 - 125
3,3'-Dichlorobenzidine	64.0	72.1		ug/L		113	49 - 135
3-Nitroaniline	32.0	32.3		ug/L		101	51 - 120
4,6-Dinitro-2-methylphenol	64.0	78.3		ug/L		122	46 - 136
4-Bromophenyl phenyl ether	32.0	36.3		ug/L		113	65 - 120
4-Chloro-3-methylphenol	32.0	36.7		ug/L		115	61 - 123
4-Chloroaniline	32.0	28.8		ug/L		90	30 - 120
4-Chlorophenyl phenyl ether	32.0	36.5		ug/L		114	62 - 120
4-Methylphenol	32.0	31.9		ug/L		100	29 - 131
4-Nitroaniline	32.0	38.3		ug/L		120	65 - 120
4-Nitrophenol	64.0	55.7		ug/L		87	45 - 120
Acenaphthene	32.0	36.3		ug/L		113	60 - 120
Acenaphthylene	32.0	34.5		ug/L		108	63 - 120
Acetophenone	32.0	35.5		ug/L		111	45 - 120
Anthracene	32.0	37.8		ug/L		118	67 - 120
Atrazine	64.0	77.6		ug/L		121	71 - 130
Benzaldehyde	64.0	66.3	E	ug/L		104	10 - 140
Benzo[a]anthracene	32.0	35.8		ug/L		112	70 - 121
Benzo[a]pyrene	32.0	29.9		ug/L		93	60 - 123
Benzo[b]fluoranthene	32.0	34.1		ug/L		106	66 - 126
Benzo[g,h,i]perylene	32.0	32.4		ug/L		101	66 - 150
Benzo[k]fluoranthene	32.0	34.3		ug/L		107	65 - 124
Biphenyl	32.0	35.5		ug/L		111	59 - 120
bis (2-chloroisopropyl) ether	32.0	34.6		ug/L		108	21 - 136

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-610190/2-A
Matrix: Water
Analysis Batch: 610354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	32.0	35.3		ug/L		110	50 - 128
Bis(2-chloroethyl)ether	32.0	36.4		ug/L		114	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	32.6		ug/L		102	63 - 139
Butyl benzyl phthalate	32.0	37.6		ug/L		117	70 - 129
Caprolactam	64.0	27.9		ug/L		44	22 - 120
Carbazole	32.0	44.1	*+	ug/L		138	66 - 123
Chrysene	32.0	34.6		ug/L		108	69 - 120
Dibenz(a,h)anthracene	32.0	32.7		ug/L		102	65 - 135
Dibenzofuran	32.0	37.2		ug/L		116	66 - 120
Diethyl phthalate	32.0	39.5		ug/L		124	59 - 127
Dimethyl phthalate	32.0	39.6	*+	ug/L		124	68 - 120
Di-n-butyl phthalate	32.0	38.4		ug/L		120	69 - 131
Di-n-octyl phthalate	32.0	32.7		ug/L		102	63 - 140
Fluoranthene	32.0	38.1		ug/L		119	69 - 126
Fluorene	32.0	38.1		ug/L		119	66 - 120
Hexachlorobenzene	32.0	36.0		ug/L		113	61 - 120
Hexachlorobutadiene	32.0	28.5		ug/L		89	35 - 120
Hexachlorocyclopentadiene	32.0	24.5		ug/L		76	31 - 120
Hexachloroethane	32.0	30.8		ug/L		96	43 - 120
Indeno[1,2,3-cd]pyrene	32.0	32.2		ug/L		101	69 - 146
Isophorone	32.0	35.3		ug/L		110	55 - 120
Naphthalene	32.0	33.2		ug/L		104	57 - 120
Nitrobenzene	32.0	34.7		ug/L		108	53 - 123
N-Nitrosodi-n-propylamine	32.0	36.7		ug/L		115	32 - 140
N-Nitrosodiphenylamine	32.0	37.0		ug/L		116	61 - 120
Pentachlorophenol	64.0	77.0		ug/L		120	29 - 136
Phenanthrene	32.0	37.1		ug/L		116	68 - 120
Phenol	32.0	19.5		ug/L		61	17 - 120
Pyrene	32.0	37.9		ug/L		119	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*119*		*41 - 120*
2-Fluorobiphenyl (Surr)	*114*		*48 - 120*
2-Fluorophenol (Surr)	*80*		*35 - 120*
Nitrobenzene-d5 (Surr)	*108*		*46 - 120*
Phenol-d5 (Surr)	*62*		*22 - 120*
p-Terphenyl-d14 (Surr)	*111*		*60 - 148*

Lab Sample ID: LCSD 480-610190/3-A
Matrix: Water
Analysis Batch: 610354

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 610190

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	32.0	39.1		ug/L		122	65 - 126	0	18
2,4,6-Trichlorophenol	32.0	38.1		ug/L		119	64 - 120	5	19
2,4-Dichlorophenol	32.0	36.9		ug/L		115	63 - 120	1	19
2,4-Dimethylphenol	32.0	36.3		ug/L		113	47 - 120	1	42
2,4-Dinitrophenol	64.0	78.8		ug/L		123	31 - 137	6	22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-610190/3-A
Matrix: Water
Analysis Batch: 610354

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 610190

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dinitrotoluene	32.0	40.6	*+	ug/L		127	69 - 120	2	20
2,6-Dinitrotoluene	32.0	40.1	*+	ug/L		125	68 - 120	5	15
2-Chloronaphthalene	32.0	36.0		ug/L		112	58 - 120	4	21
2-Chlorophenol	32.0	34.4		ug/L		108	48 - 120	5	25
2-Methylnaphthalene	32.0	33.1		ug/L		103	59 - 120	3	21
2-Methylphenol	32.0	33.6		ug/L		105	39 - 120	6	27
2-Nitroaniline	32.0	39.2		ug/L		123	54 - 127	3	15
2-Nitrophenol	32.0	35.9		ug/L		112	52 - 125	4	18
3,3'-Dichlorobenzidine	64.0	72.6		ug/L		113	49 - 135	1	25
3-Nitroaniline	32.0	32.9		ug/L		103	51 - 120	2	19
4,6-Dinitro-2-methylphenol	64.0	81.9		ug/L		128	46 - 136	4	15
4-Bromophenyl phenyl ether	32.0	37.8		ug/L		118	65 - 120	4	15
4-Chloro-3-methylphenol	32.0	36.8		ug/L		115	61 - 123	0	27
4-Chloroaniline	32.0	28.0		ug/L		88	30 - 120	3	22
4-Chlorophenyl phenyl ether	32.0	38.1		ug/L		119	62 - 120	4	16
4-Methylphenol	32.0	32.9		ug/L		103	29 - 131	3	24
4-Nitroaniline	32.0	39.6	*+	ug/L		124	65 - 120	3	24
4-Nitrophenol	64.0	56.0		ug/L		88	45 - 120	1	48
Acenaphthene	32.0	37.8		ug/L		118	60 - 120	4	24
Acenaphthylene	32.0	36.1		ug/L		113	63 - 120	4	18
Acetophenone	32.0	36.3		ug/L		114	45 - 120	2	20
Anthracene	32.0	39.7	*+	ug/L		124	67 - 120	5	15
Atrazine	64.0	79.0		ug/L		123	71 - 130	2	20
Benzaldehyde	64.0	69.8	E	ug/L		109	10 - 140	5	20
Benzo[a]anthracene	32.0	36.6		ug/L		114	70 - 121	2	15
Benzo[a]pyrene	32.0	30.1		ug/L		94	60 - 123	1	15
Benzo[b]fluoranthene	32.0	34.3		ug/L		107	66 - 126	1	15
Benzo[g,h,i]perylene	32.0	32.4		ug/L		101	66 - 150	0	15
Benzo[k]fluoranthene	32.0	34.8		ug/L		109	65 - 124	2	22
Biphenyl	32.0	37.3		ug/L		117	59 - 120	5	20
bis (2-chloroisopropyl) ether	32.0	35.1		ug/L		110	21 - 136	1	24
Bis(2-chloroethoxy)methane	32.0	36.3		ug/L		113	50 - 128	3	17
Bis(2-chloroethyl)ether	32.0	36.5		ug/L		114	44 - 120	0	21
Bis(2-ethylhexyl) phthalate	32.0	32.6		ug/L		102	63 - 139	0	15
Butyl benzyl phthalate	32.0	38.7		ug/L		121	70 - 129	3	16
Caprolactam	64.0	28.2		ug/L		44	22 - 120	1	20
Carbazole	32.0	45.5	*+	ug/L		142	66 - 123	3	20
Chrysene	32.0	35.3		ug/L		110	69 - 120	2	15
Dibenz(a,h)anthracene	32.0	32.6		ug/L		102	65 - 135	0	15
Dibenzofuran	32.0	38.1		ug/L		119	66 - 120	2	15
Diethyl phthalate	32.0	40.4		ug/L		126	59 - 127	2	15
Dimethyl phthalate	32.0	40.8	*+	ug/L		127	68 - 120	3	15
Di-n-butyl phthalate	32.0	40.2		ug/L		125	69 - 131	4	15
Di-n-octyl phthalate	32.0	32.6		ug/L		102	63 - 140	0	16
Fluoranthene	32.0	39.6		ug/L		124	69 - 126	4	15
Fluorene	32.0	39.2	*+	ug/L		123	66 - 120	3	15
Hexachlorobenzene	32.0	36.9		ug/L		115	61 - 120	2	15
Hexachlorobutadiene	32.0	30.8		ug/L		96	35 - 120	8	44
Hexachlorocyclopentadiene	32.0	28.2		ug/L		88	31 - 120	14	49

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-610190/3-A
Matrix: Water
Analysis Batch: 610354

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 610190

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachloroethane			32.0	31.8		ug/L		100	43 - 120	3	46
Indeno[1,2,3-cd]pyrene			32.0	32.1		ug/L		100	69 - 146	0	15
Isophorone			32.0	36.5		ug/L		114	55 - 120	3	17
Naphthalene			32.0	35.0		ug/L		109	57 - 120	5	29
Nitrobenzene			32.0	35.9		ug/L		112	53 - 123	3	24
N-Nitrosodi-n-propylamine			32.0	37.4		ug/L		117	32 - 140	2	31
N-Nitrosodiphenylamine			32.0	37.9		ug/L		118	61 - 120	2	15
Pentachlorophenol			64.0	76.2		ug/L		119	29 - 136	1	37
Phenanthrene			32.0	38.2		ug/L		119	68 - 120	3	15
Phenol			32.0	20.2		ug/L		63	17 - 120	4	34
Pyrene			32.0	38.5		ug/L		120	70 - 125	2	19

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*121*	*S1+*	*41 - 120*
2-Fluorobiphenyl (Surr)	*119*		*48 - 120*
2-Fluorophenol (Surr)	*84*		*35 - 120*
Nitrobenzene-d5 (Surr)	*113*		*46 - 120*
Phenol-d5 (Surr)	*63*		*22 - 120*
p-Terphenyl-d14 (Surr)	*112*		*60 - 148*

Lab Sample ID: MB 480-610450/1-A
Matrix: Solid
Analysis Batch: 610710

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	170	U	170	46	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
2,4,6-Trichlorophenol	170	U	170	34	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
2,4-Dichlorophenol	170	U	170	18	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
2,4-Dimethylphenol	170	U	170	41	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
2,4-Dinitrophenol	1700	U	1700	780	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
2,4-Dinitrotoluene	170	U	170	35	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
2,6-Dinitrotoluene	170	U	170	20	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
2-Chloronaphthalene	170	U	170	28	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
2-Chlorophenol	330	U	330	31	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
2-Methylnaphthalene	170	U	170	34	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
2-Methylphenol	170	U	170	20	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
2-Nitroaniline	330	U	330	25	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
2-Nitrophenol	170	U	170	48	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
3,3'-Dichlorobenzidine	330	U	330	200	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
3-Nitroaniline	330	U	330	47	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
4,6-Dinitro-2-methylphenol	330	U	330	170	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
4-Bromophenyl phenyl ether	170	U	170	24	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
4-Chloro-3-methylphenol	170	U	170	42	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
4-Chloroaniline	170	U	170	42	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
4-Chlorophenyl phenyl ether	170	U	170	21	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
4-Methylphenol	330	U	330	20	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
4-Nitroaniline	330	U	330	89	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
4-Nitrophenol	330	U	330	120	ug/Kg		12/30/21 07:58	01/04/22 10:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-610450/1-A
Matrix: Solid
Analysis Batch: 610710

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	25	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Acenaphthylene	170	U	170	22	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Acetophenone	170	U	170	23	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Anthracene	170	U	170	42	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Atrazine	170	U	170	59	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Benzaldehyde	170	U	170	130	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Biphenyl	170	U	170	25	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
bis (2-chloroisopropyl) ether	170	U	170	34	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Bis(2-chloroethoxy)methane	170	U	170	36	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Bis(2-chloroethyl)ether	170	U	170	22	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Bis(2-ethylhexyl) phthalate	170	U	170	58	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Butyl benzyl phthalate	170	U	170	28	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Caprolactam	170	U	170	51	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Carbazole	170	U	170	20	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Chrysene	170	U	170	38	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Dibenzofuran	170	U	170	20	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Diethyl phthalate	170	U	170	22	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Dimethyl phthalate	170	U	170	20	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Di-n-butyl phthalate	170	U	170	29	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Di-n-octyl phthalate	170	U	170	20	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Fluoranthene	170	U	170	18	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Fluorene	170	U	170	20	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Hexachlorobenzene	170	U	170	23	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Hexachlorobutadiene	170	U	170	25	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Hexachlorocyclopentadiene	170	U	170	23	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Hexachloroethane	170	U	170	22	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Isophorone	170	U	170	36	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Naphthalene	170	U	170	22	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Nitrobenzene	170	U	170	19	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
N-Nitrosodi-n-propylamine	170	U	170	29	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
N-Nitrosodiphenylamine	170	U	170	140	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Pentachlorophenol	330	U	330	170	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Phenanthrene	170	U	170	25	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Phenol	170	U	170	26	ug/Kg		12/30/21 07:58	01/04/22 10:54	1
Pyrene	170	U	170	20	ug/Kg		12/30/21 07:58	01/04/22 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*54 - 120*	*12/30/21 07:58*	*01/04/22 10:54*	*1*
2-Fluorobiphenyl (Surr)	*92*		*60 - 120*	*12/30/21 07:58*	*01/04/22 10:54*	*1*
2-Fluorophenol (Surr)	*77*		*52 - 120*	*12/30/21 07:58*	*01/04/22 10:54*	*1*
Nitrobenzene-d5 (Surr)	*76*		*53 - 120*	*12/30/21 07:58*	*01/04/22 10:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-610450/1-A
Matrix: Solid
Analysis Batch: 610710

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610450

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	78		54 - 120	12/30/21 07:58	01/04/22 10:54	1
p-Terphenyl-d14 (Surr)	101		79 - 130	12/30/21 07:58	01/04/22 10:54	1

Lab Sample ID: LCS 480-610450/2-A
Matrix: Solid
Analysis Batch: 610710

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610450

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	1630	1640		ug/Kg		101	59 - 126
2,4,6-Trichlorophenol	1630	1640		ug/Kg		101	59 - 123
2,4-Dichlorophenol	1630	1570		ug/Kg		96	61 - 120
2,4-Dimethylphenol	1630	1480		ug/Kg		91	59 - 120
2,4-Dinitrophenol	3260	3860		ug/Kg		119	41 - 146
2,4-Dinitrotoluene	1630	1670		ug/Kg		102	63 - 120
2,6-Dinitrotoluene	1630	1590		ug/Kg		98	66 - 120
2-Chloronaphthalene	1630	1520		ug/Kg		93	57 - 120
2-Chlorophenol	1630	1420		ug/Kg		87	53 - 120
2-Methylnaphthalene	1630	1420		ug/Kg		87	59 - 120
2-Methylphenol	1630	1420		ug/Kg		87	54 - 120
2-Nitroaniline	1630	1520		ug/Kg		93	61 - 120
2-Nitrophenol	1630	1490		ug/Kg		91	56 - 120
3,3'-Dichlorobenzidine	3260	3050		ug/Kg		94	54 - 120
3-Nitroaniline	1630	1360		ug/Kg		84	48 - 120
4,6-Dinitro-2-methylphenol	3260	3590		ug/Kg		110	49 - 122
4-Bromophenyl phenyl ether	1630	1670		ug/Kg		103	58 - 120
4-Chloro-3-methylphenol	1630	1610		ug/Kg		99	61 - 120
4-Chloroaniline	1630	1370		ug/Kg		84	38 - 120
4-Chlorophenyl phenyl ether	1630	1600		ug/Kg		98	63 - 124
4-Methylphenol	1630	1450		ug/Kg		89	55 - 120
4-Nitroaniline	1630	1620		ug/Kg		100	56 - 120
4-Nitrophenol	3260	3180		ug/Kg		97	43 - 147
Acenaphthene	1630	1540		ug/Kg		94	62 - 120
Acenaphthylene	1630	1450		ug/Kg		89	58 - 121
Acetophenone	1630	1340		ug/Kg		82	54 - 120
Anthracene	1630	1660		ug/Kg		102	62 - 120
Atrazine	3260	3290		ug/Kg		101	60 - 127
Benzaldehyde	3260	2740	E	ug/Kg		84	10 - 150
Benzo[a]anthracene	1630	1670		ug/Kg		102	65 - 120
Benzo[a]pyrene	1630	1540		ug/Kg		94	64 - 120
Benzo[b]fluoranthene	1630	1620		ug/Kg		100	64 - 120
Benzo[g,h,i]perylene	1630	1670		ug/Kg		102	45 - 145
Benzo[k]fluoranthene	1630	1710		ug/Kg		105	65 - 120
Biphenyl	1630	1530		ug/Kg		94	59 - 120
bis (2-chloroisopropyl) ether	1630	1240		ug/Kg		76	44 - 120
Bis(2-chloroethoxy)methane	1630	1390		ug/Kg		85	55 - 120
Bis(2-chloroethyl)ether	1630	1340		ug/Kg		82	45 - 120
Bis(2-ethylhexyl) phthalate	1630	1620		ug/Kg		100	61 - 133
Butyl benzyl phthalate	1630	1640		ug/Kg		100	61 - 129

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-610450/2-A
Matrix: Solid
Analysis Batch: 610710

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610450

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Caprolactam	3260	3160		ug/Kg		97	47 - 120
Carbazole	1630	1690		ug/Kg		104	65 - 120
Chrysene	1630	1600		ug/Kg		98	64 - 120
Dibenz(a,h)anthracene	1630	1720		ug/Kg		105	54 - 132
Dibenzofuran	1630	1550		ug/Kg		95	63 - 120
Diethyl phthalate	1630	1590		ug/Kg		97	66 - 120
Dimethyl phthalate	1630	1580		ug/Kg		97	65 - 124
Di-n-butyl phthalate	1630	1670		ug/Kg		103	58 - 130
Di-n-octyl phthalate	1630	1620		ug/Kg		100	57 - 133
Fluoranthene	1630	1710		ug/Kg		105	62 - 120
Fluorene	1630	1610		ug/Kg		99	63 - 120
Hexachlorobenzene	1630	1700		ug/Kg		104	60 - 120
Hexachlorobutadiene	1630	1460		ug/Kg		89	45 - 120
Hexachlorocyclopentadiene	1630	1380		ug/Kg		85	47 - 120
Hexachloroethane	1630	1280		ug/Kg		78	41 - 120
Indeno[1,2,3-cd]pyrene	1630	1690		ug/Kg		104	56 - 134
Isophorone	1630	1410		ug/Kg		87	56 - 120
Naphthalene	1630	1420		ug/Kg		87	55 - 120
Nitrobenzene	1630	1350		ug/Kg		83	54 - 120
N-Nitrosodi-n-propylamine	1630	1360		ug/Kg		83	52 - 120
N-Nitrosodiphenylamine	1630	1650		ug/Kg		101	51 - 128
Pentachlorophenol	3260	3700		ug/Kg		113	51 - 120
Phenanthrene	1630	1630		ug/Kg		100	60 - 120
Phenol	1630	1390		ug/Kg		85	53 - 120
Pyrene	1630	1620		ug/Kg		99	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*116*		*54 - 120*
2-Fluorobiphenyl (Surr)	*97*		*60 - 120*
2-Fluorophenol (Surr)	*83*		*52 - 120*
Nitrobenzene-d5 (Surr)	*83*		*53 - 120*
Phenol-d5 (Surr)	*84*		*54 - 120*
p-Terphenyl-d14 (Surr)	*105*		*79 - 130*

Lab Sample ID: 480-193741-16 MS
Matrix: Solid
Analysis Batch: 610710

Client Sample ID: B14S1
Prep Type: Total/NA
Prep Batch: 610450

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	3700	U	1840	1550	J	ug/Kg	☼	84	46 - 120
2,4,6-Trichlorophenol	3700	U F2	1840	1810	J	ug/Kg	☼	99	41 - 123
2,4-Dichlorophenol	3700	U	1840	1590	J	ug/Kg	☼	86	45 - 120
2,4-Dimethylphenol	3700	U	1840	1680	J	ug/Kg	☼	92	52 - 120
2,4-Dinitrophenol	37000	U	3670	37000	U	ug/Kg	☼	NC	41 - 146
2,4-Dinitrotoluene	3700	U	1840	1840	J	ug/Kg	☼	100	63 - 125
2,6-Dinitrotoluene	3700	U	1840	1940	J	ug/Kg	☼	105	66 - 120
2-Chloronaphthalene	3700	U	1840	1830	J	ug/Kg	☼	99	57 - 120
2-Chlorophenol	7300	U	1840	1630	J	ug/Kg	☼	89	43 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-193741-16 MS
Matrix: Solid
Analysis Batch: 610710

Client Sample ID: B14S1
Prep Type: Total/NA
Prep Batch: 610450

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	790	J	1840	1920	J	ug/Kg	☼	61	55 - 120
2-Methylphenol	3700	U	1840	1740	J	ug/Kg	☼	95	48 - 120
2-Nitroaniline	7300	U	1840	1450	J	ug/Kg	☼	79	61 - 120
2-Nitrophenol	3700	U F2	1840	2020	J	ug/Kg	☼	110	37 - 120
3,3'-Dichlorobenzidine	7300	U	3670	7300	U	ug/Kg	☼	NC	37 - 126
3-Nitroaniline	7300	U	1840	1680	J	ug/Kg	☼	92	48 - 120
4,6-Dinitro-2-methylphenol	7300	U	3670	7300	U	ug/Kg	☼	NC	23 - 149
4-Bromophenyl phenyl ether	3700	U	1840	1910	J	ug/Kg	☼	104	58 - 120
4-Chloro-3-methylphenol	3700	U	1840	1480	J	ug/Kg	☼	80	49 - 125
4-Chloroaniline	3700	U	1840	1350	J	ug/Kg	☼	74	38 - 120
4-Chlorophenyl phenyl ether	3700	U	1840	2170	J	ug/Kg	☼	118	63 - 124
4-Methylphenol	7300	U	1840	1760	J	ug/Kg	☼	96	50 - 120
4-Nitroaniline	7300	U	1840	7300	U	ug/Kg	☼	NC	47 - 120
4-Nitrophenol	7300	U F1	3670	7300	U F1	ug/Kg	☼	0	31 - 147
Acenaphthene	2800	J F1	1840	2200	J F1	ug/Kg	☼	-35	60 - 120
Acenaphthylene	1100	J F1	1840	1940	J F1	ug/Kg	☼	48	58 - 121
Acetophenone	3700	U	1840	1530	J	ug/Kg	☼	83	47 - 120
Anthracene	6900	F1 F2	1840	2400	J F1	ug/Kg	☼	-243	62 - 120
Atrazine	3700	U	3670	3990		ug/Kg	☼	109	60 - 150
Benzaldehyde	3700	U F1	3670	3700	U F1	ug/Kg	☼	0	10 - 150
Benzo[a]anthracene	14000	F2	1840	2620	J 4	ug/Kg	☼	-605	65 - 120
Benzo[a]pyrene	12000	F2	1840	2350	J 4	ug/Kg	☼	-549	64 - 120
Benzo[b]fluoranthene	16000	F2	1840	2460	J 4	ug/Kg	☼	-741	10 - 150
Benzo[g,h,i]perylene	8500	F2	1840	2390	J 4	ug/Kg	☼	-331	45 - 145
Benzo[k]fluoranthene	5400	F1 F2	1840	2410	J F1	ug/Kg	☼	-164	23 - 150
Biphenyl	3700	U	1840	1800	J	ug/Kg	☼	98	58 - 120
bis (2-chloroisopropyl) ether	3700	U	1840	1440	J	ug/Kg	☼	79	31 - 120
Bis(2-chloroethoxy)methane	3700	U	1840	1740	J	ug/Kg	☼	95	52 - 120
Bis(2-chloroethyl)ether	3700	U	1840	1620	J	ug/Kg	☼	88	45 - 120
Bis(2-ethylhexyl) phthalate	3700	U	1840	1760	J	ug/Kg	☼	96	61 - 133
Butyl benzyl phthalate	3700	U	1840	1760	J	ug/Kg	☼	96	61 - 120
Caprolactam	3700	U	3670	3350	J	ug/Kg	☼	91	37 - 133
Carbazole	3200	J F1	1840	2170	J F1	ug/Kg	☼	-57	59 - 120
Chrysene	13000	F2	1840	2610	J 4	ug/Kg	☼	-591	64 - 120
Dibenz(a,h)anthracene	2000	J F1	1840	2150	J F1	ug/Kg	☼	10	54 - 132
Dibenzofuran	2100	J F1	1840	2140	J F1	ug/Kg	☼	3	62 - 120
Diethyl phthalate	3700	U	1840	1940	J	ug/Kg	☼	105	66 - 120
Dimethyl phthalate	3700	U	1840	1980	J	ug/Kg	☼	108	65 - 124
Di-n-butyl phthalate	3700	U	1840	1900	J	ug/Kg	☼	104	58 - 130
Di-n-octyl phthalate	3700	U	1840	1940	J	ug/Kg	☼	106	57 - 133
Fluoranthene	36000	F2	1840	3540	J 4	ug/Kg	☼	-1774	62 - 120
Fluorene	2300	J F1	1840	2250	J F1	ug/Kg	☼	-3	63 - 120
Hexachlorobenzene	3700	U	1840	2090	J	ug/Kg	☼	114	60 - 120
Hexachlorobutadiene	3700	U	1840	1930	J	ug/Kg	☼	105	45 - 120
Hexachlorocyclopentadiene	3700	U	1840	1240	J	ug/Kg	☼	67	31 - 120
Hexachloroethane	3700	U	1840	1620	J	ug/Kg	☼	88	21 - 120
Indeno[1,2,3-cd]pyrene	7600	F2	1840	2290	J 4	ug/Kg	☼	-290	56 - 134
Isophorone	3700	U	1840	1650	J	ug/Kg	☼	90	56 - 120
Naphthalene	1000	J	1840	1970	J	ug/Kg	☼	51	46 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-193741-16 MS
Matrix: Solid
Analysis Batch: 610710

Client Sample ID: B14S1
Prep Type: Total/NA
Prep Batch: 610450

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrobenzene	3700	U	1840	1710	J	ug/Kg	☼	93	49 - 120
N-Nitrosodi-n-propylamine	3700	U	1840	1630	J	ug/Kg	☼	89	46 - 120
N-Nitrosodiphenylamine	3700	U	1840	3700	U	ug/Kg	☼	NC	20 - 128
Pentachlorophenol	7300	U	3670	7300	U	ug/Kg	☼	NC	25 - 136
Phenanthrene	32000	F2	1840	3540	J 4	ug/Kg	☼	-1562	60 - 122
Phenol	3700	U	1840	1620	J	ug/Kg	☼	88	50 - 120
Pyrene	29000	F2	1840	3220	J 4	ug/Kg	☼	-1403	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*114*		*54 - 120*
2-Fluorobiphenyl (Surr)	*113*		*60 - 120*
2-Fluorophenol (Surr)	*81*		*52 - 120*
Nitrobenzene-d5 (Surr)	*84*		*53 - 120*
Phenol-d5 (Surr)	*87*		*54 - 120*
p-Terphenyl-d14 (Surr)	*115*		*79 - 130*

Lab Sample ID: 480-193741-16 MSD
Matrix: Solid
Analysis Batch: 610710

Client Sample ID: B14S1
Prep Type: Total/NA
Prep Batch: 610450

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	3700	U	1840	1290	J	ug/Kg	☼	70	46 - 120	18	18
2,4,6-Trichlorophenol	3700	U F2	1840	1040	J F2	ug/Kg	☼	56	41 - 123	54	19
2,4-Dichlorophenol	3700	U	1840	1460	J	ug/Kg	☼	79	45 - 120	9	19
2,4-Dimethylphenol	3700	U	1840	1590	J	ug/Kg	☼	87	52 - 120	6	42
2,4-Dinitrophenol	37000	U	3680	37000	U	ug/Kg	☼	NC	41 - 146	NC	22
2,4-Dinitrotoluene	3700	U	1840	1760	J	ug/Kg	☼	96	63 - 125	5	20
2,6-Dinitrotoluene	3700	U	1840	1760	J	ug/Kg	☼	96	66 - 120	10	15
2-Chloronaphthalene	3700	U	1840	1730	J	ug/Kg	☼	94	57 - 120	5	21
2-Chlorophenol	7300	U	1840	1550	J	ug/Kg	☼	84	43 - 120	5	25
2-Methylnaphthalene	790	J	1840	1880	J	ug/Kg	☼	59	55 - 120	2	21
2-Methylphenol	3700	U	1840	1680	J	ug/Kg	☼	91	48 - 120	4	27
2-Nitroaniline	7300	U	1840	1270	J	ug/Kg	☼	69	61 - 120	14	15
2-Nitrophenol	3700	U F2	1840	1680	J F2	ug/Kg	☼	91	37 - 120	19	18
3,3'-Dichlorobenzidine	7300	U	3680	7300	U	ug/Kg	☼	NC	37 - 126	NC	25
3-Nitroaniline	7300	U	1840	1420	J	ug/Kg	☼	77	48 - 120	17	19
4,6-Dinitro-2-methylphenol	7300	U	3680	7300	U	ug/Kg	☼	NC	23 - 149	NC	15
4-Bromophenyl phenyl ether	3700	U	1840	1790	J	ug/Kg	☼	97	58 - 120	7	15
4-Chloro-3-methylphenol	3700	U	1840	1310	J	ug/Kg	☼	71	49 - 125	12	27
4-Chloroaniline	3700	U	1840	1380	J	ug/Kg	☼	75	38 - 120	2	22
4-Chlorophenyl phenyl ether	3700	U	1840	1960	J	ug/Kg	☼	106	63 - 124	10	16
4-Methylphenol	7300	U	1840	1620	J	ug/Kg	☼	88	50 - 120	8	24
4-Nitroaniline	7300	U	1840	7300	U	ug/Kg	☼	NC	47 - 120	NC	24
4-Nitrophenol	7300	U F1	3680	7300	U F1	ug/Kg	☼	0	31 - 147	NC	25
Acenaphthene	2800	J F1	1840	2500	J F1	ug/Kg	☼	-18	60 - 120	13	35
Acenaphthylene	1100	J F1	1840	1930	J F1	ug/Kg	☼	47	58 - 121	1	18
Acetophenone	3700	U	1840	1440	J	ug/Kg	☼	79	47 - 120	6	20
Anthracene	6900	F1 F2	1840	3400	J F1 F2	ug/Kg	☼	-189	62 - 120	34	15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-193741-16 MSD
Matrix: Solid
Analysis Batch: 610710

Client Sample ID: B14S1
Prep Type: Total/NA
Prep Batch: 610450

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Atrazine	3700	U	3680	3690	J	ug/Kg	☼	100	60 - 150	8	20
Benzaldehyde	3700	U F1	3680	3700	U F1	ug/Kg	☼	0	10 - 150	NC	20
Benzo[a]anthracene	14000	F2	1840	4460	4 F2	ug/Kg	☼	-505	65 - 120	52	15
Benzo[a]pyrene	12000	F2	1840	4080	4 F2	ug/Kg	☼	-455	64 - 120	54	15
Benzo[b]fluoranthene	16000	F2	1840	4580	4 F2	ug/Kg	☼	-625	10 - 150	60	15
Benzo[g,h,i]perylene	8500	F2	1840	3420	J 4 F2	ug/Kg	☼	-275	45 - 145	35	15
Benzo[k]fluoranthene	5400	F1 F2	1840	3310	J F1 F2	ug/Kg	☼	-115	23 - 150	32	22
Biphenyl	3700	U	1840	1850	J	ug/Kg	☼	101	58 - 120	3	20
bis (2-chloroisopropyl) ether	3700	U	1840	1360	J	ug/Kg	☼	74	31 - 120	6	24
Bis(2-chloroethoxy)methane	3700	U	1840	1540	J	ug/Kg	☼	84	52 - 120	13	17
Bis(2-chloroethyl)ether	3700	U	1840	1500	J	ug/Kg	☼	81	45 - 120	8	21
Bis(2-ethylhexyl) phthalate	3700	U	1840	1630	J	ug/Kg	☼	89	61 - 133	8	15
Butyl benzyl phthalate	3700	U	1840	1650	J	ug/Kg	☼	90	61 - 120	6	16
Caprolactam	3700	U	3680	2940	J	ug/Kg	☼	80	37 - 133	13	20
Carbazole	3200	J F1	1840	2610	J F1	ug/Kg	☼	-33	59 - 120	19	20
Chrysene	13000	F2	1840	4500	4 F2	ug/Kg	☼	-488	64 - 120	53	15
Dibenz(a,h)anthracene	2000	J F1	1840	2330	J F1	ug/Kg	☼	20	54 - 132	8	15
Dibenzofuran	2100	J F1	1840	2400	J F1	ug/Kg	☼	17	62 - 120	11	15
Diethyl phthalate	3700	U	1840	1760	J	ug/Kg	☼	96	66 - 120	10	15
Dimethyl phthalate	3700	U	1840	1870	J	ug/Kg	☼	102	65 - 124	6	15
Di-n-butyl phthalate	3700	U	1840	1800	J	ug/Kg	☼	98	58 - 130	6	15
Di-n-octyl phthalate	3700	U	1840	1890	J	ug/Kg	☼	103	57 - 133	3	16
Fluoranthene	36000	F2	1840	8650	4 F2	ug/Kg	☼	-1495	62 - 120	84	15
Fluorene	2300	J F1	1840	2550	J F1	ug/Kg	☼	13	63 - 120	12	15
Hexachlorobenzene	3700	U	1840	2070	J	ug/Kg	☼	113	60 - 120	1	15
Hexachlorobutadiene	3700	U	1840	1720	J	ug/Kg	☼	94	45 - 120	11	44
Hexachlorocyclopentadiene	3700	U	1840	1080	J	ug/Kg	☼	59	31 - 120	14	49
Hexachloroethane	3700	U	1840	1490	J	ug/Kg	☼	81	21 - 120	8	46
Indeno[1,2,3-cd]pyrene	7600	F2	1840	3310	J 4 F2	ug/Kg	☼	-234	56 - 134	37	15
Isophorone	3700	U	1840	1500	J	ug/Kg	☼	82	56 - 120	10	17
Naphthalene	1000	J	1840	1980	J	ug/Kg	☼	52	46 - 120	0	29
Nitrobenzene	3700	U	1840	1490	J	ug/Kg	☼	81	49 - 120	14	24
N-Nitrosodi-n-propylamine	3700	U	1840	1510	J	ug/Kg	☼	82	46 - 120	8	31
N-Nitrosodiphenylamine	3700	U	1840	3700	U	ug/Kg	☼	NC	20 - 128	NC	15
Pentachlorophenol	7300	U	3680	7300	U	ug/Kg	☼	NC	25 - 136	NC	35
Phenanthrene	32000	F2	1840	8120	4 F2	ug/Kg	☼	-1313	60 - 122	78	15
Phenol	3700	U	1840	1520	J	ug/Kg	☼	83	50 - 120	6	35
Pyrene	29000	F2	1840	7250	4 F2	ug/Kg	☼	-1183	61 - 133	77	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*83*		*54 - 120*
2-Fluorobiphenyl (Surr)	*105*		*60 - 120*
2-Fluorophenol (Surr)	*75*		*52 - 120*
Nitrobenzene-d5 (Surr)	*84*		*53 - 120*
Phenol-d5 (Surr)	*85*		*54 - 120*
p-Terphenyl-d14 (Surr)	*110*		*79 - 130*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-610017/1-A
Matrix: Solid
Analysis Batch: 610332

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10.2	U	10.2	4.5	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Antimony	15.3	U	15.3	0.41	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Arsenic	2.0	U	2.0	0.41	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Barium	0.51	U	0.51	0.11	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Beryllium	0.20	U	0.20	0.029	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Cadmium	0.20	U	0.20	0.031	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Calcium	6.50	J	50.9	3.4	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Chromium	0.51	U	0.51	0.20	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Cobalt	0.51	U	0.51	0.051	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Copper	1.0	U	1.0	0.21	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Iron	6.73	J	10.2	3.6	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Lead	1.0	U	1.0	0.24	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Magnesium	20.4	U	20.4	0.94	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Manganese	0.270		0.20	0.033	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Nickel	5.1	U	5.1	0.23	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Potassium	30.5	U	30.5	20.4	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Selenium	4.1	U	4.1	0.41	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Silver	0.61	U	0.61	0.20	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Sodium	55.83	J ^+	143	13.2	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Thallium	6.1	U	6.1	0.31	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Vanadium	0.51	U	0.51	0.11	mg/Kg		12/27/21 14:21	12/28/21 17:22	1
Zinc	2.0	U	2.0	0.65	mg/Kg		12/27/21 14:21	12/28/21 17:22	1

Lab Sample ID: LCSSRM 480-610017/2-A
Matrix: Solid
Analysis Batch: 610332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610017

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8130	7934		mg/Kg		97.6	49.9 - 150.1
Antimony	134	95.37		mg/Kg		71.2	19.3 - 250.0
Arsenic	156	120.6		mg/Kg		77.3	69.9 - 130.1
Barium	239	194.4		mg/Kg		81.3	74.9 - 124.7
Beryllium	169	142.9		mg/Kg		84.6	75.1 - 125.4
Cadmium	137	108.8		mg/Kg		79.4	75.2 - 124.8
Calcium	4760	3732		mg/Kg		78.4	72.7 - 127.5
Chromium	154	126.1		mg/Kg		81.9	70.1 - 129.9
Cobalt	121	108.0		mg/Kg		89.2	75.0 - 124.8
Iron	14100	12190		mg/Kg		86.5	34.9 - 164.5
Lead	130	112.6		mg/Kg		86.6	71.8 - 128.5
Magnesium	2320	1822		mg/Kg		78.5	62.1 - 137.9

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-610017/2-A
Matrix: Solid
Analysis Batch: 610332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610017

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	269	219.3		mg/Kg		81.5	74.0 - 126.4
Nickel	58.7	48.83		mg/Kg		83.2	64.2 - 119.3
Potassium	2020	1838		mg/Kg		91.0	58.9 - 141.1
Selenium	167	133.9		mg/Kg		80.2	67.7 - 132.3
Silver	33.6	24.54		mg/Kg		73.0	68.5 - 131.3
Sodium	133	159.0		mg/Kg		119.5	35.0 - 165.4
Thallium	112	101.3		mg/Kg		90.5	67.9 - 131.3
Vanadium	62.6	54.91		mg/Kg		87.7	59.1 - 141.1
Zinc	158	120.8		mg/Kg		76.5	70.3 - 129.7

Lab Sample ID: LCSSRM 480-610017/2-A
Matrix: Solid
Analysis Batch: 610370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610017

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	54.9	41.21		mg/Kg		75.1	74.9 - 125.0

Lab Sample ID: 480-193741-1 MS
Matrix: Solid
Analysis Batch: 610332

Client Sample ID: B1S2
Prep Type: Total/NA
Prep Batch: 610017

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9580	F1	2470	16840	F1	mg/Kg	☼	294	75 - 125
Antimony	1.3	J F1	49.4	37.22	F1	mg/Kg	☼	73	75 - 125
Arsenic	4.8		49.4	50.07		mg/Kg	☼	92	75 - 125
Barium	79.4	F1	49.4	101.7	F1	mg/Kg	☼	45	75 - 125
Beryllium	0.51		49.4	48.62		mg/Kg	☼	97	75 - 125
Cadmium	0.31		49.4	46.03		mg/Kg	☼	93	75 - 125
Calcium	56700	F2 B	2470	7072	4	mg/Kg	☼	-2009	75 - 125
Chromium	14.6		49.4	65.88		mg/Kg	☼	104	75 - 125
Cobalt	5.6		49.4	50.35		mg/Kg	☼	91	75 - 125
Copper	17.1		49.4	60.12		mg/Kg	☼	87	75 - 125
Iron	14300	F2 B	2470	13260	4	mg/Kg	☼	-42	75 - 125
Lead	576	F2	49.4	77.39	4	mg/Kg	☼	-1010	75 - 125
Magnesium	7430	F1 F2	2470	3499	F1	mg/Kg	☼	-159	75 - 125
Manganese	380	F2 B	49.4	201.3	4	mg/Kg	☼	-362	75 - 125
Nickel	14.9		49.4	57.57		mg/Kg	☼	86	75 - 125
Potassium	2390	F1 F2	2470	4611		mg/Kg	☼	90	75 - 125
Selenium	1.3	J	49.4	45.17		mg/Kg	☼	89	75 - 125
Silver	0.75	U	12.3	11.70		mg/Kg	☼	95	75 - 125
Sodium	380	B	2470	2633		mg/Kg	☼	91	75 - 125
Thallium	7.5	U	49.4	47.89		mg/Kg	☼	97	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-193741-1 MS
Matrix: Solid
Analysis Batch: 610332

Client Sample ID: B1S2
Prep Type: Total/NA
Prep Batch: 610017

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	22.4		49.4	69.27		mg/Kg	☼	95	75 - 125
Zinc	103	F1 F2	49.4	84.07	F1	mg/Kg	☼	-38	75 - 125

Lab Sample ID: 480-193741-1 MSD
Matrix: Solid
Analysis Batch: 610332

Client Sample ID: B1S2
Prep Type: Total/NA
Prep Batch: 610017

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	9580	F1	2480	17830	F1	mg/Kg	☼	333	75 - 125	6	20
Antimony	1.3	J F1	49.5	35.10	F1	mg/Kg	☼	68	75 - 125	6	20
Arsenic	4.8		49.5	49.87		mg/Kg	☼	91	75 - 125	0	20
Barium	79.4	F1	49.5	120.4		mg/Kg	☼	83	75 - 125	17	20
Beryllium	0.51		49.5	46.31		mg/Kg	☼	93	75 - 125	5	20
Cadmium	0.31		49.5	45.48		mg/Kg	☼	91	75 - 125	1	20
Calcium	56700	F2 B	2480	48430	4 F2	mg/Kg	☼	-332	75 - 125	149	20
Chromium	14.6		49.5	61.36		mg/Kg	☼	94	75 - 125	7	20
Cobalt	5.6		49.5	54.70		mg/Kg	☼	99	75 - 125	8	20
Copper	17.1		49.5	61.59		mg/Kg	☼	90	75 - 125	2	20
Iron	14300	F2 B	2480	16350	4 F2	mg/Kg	☼	83	75 - 125	21	20
Lead	576	F2	49.5	108.0	4 F2	mg/Kg	☼	-945	75 - 125	33	20
Magnesium	7430	F1 F2	2480	10560	F1 F2	mg/Kg	☼	126	75 - 125	100	20
Manganese	380	F2 B	49.5	501.2	4 F2	mg/Kg	☼	245	75 - 125	85	20
Nickel	14.9		49.5	64.08		mg/Kg	☼	99	75 - 125	11	20
Potassium	2390	F1 F2	2480	6046	F1 F2	mg/Kg	☼	148	75 - 125	27	20
Selenium	1.3	J	49.5	43.60		mg/Kg	☼	85	75 - 125	4	20
Silver	0.75	U	12.4	11.42		mg/Kg	☼	92	75 - 125	2	20
Sodium	380	B	2480	2577		mg/Kg	☼	89	75 - 125	2	20
Thallium	7.5	U	49.5	48.03		mg/Kg	☼	97	75 - 125	0	20
Vanadium	22.4		49.5	72.05		mg/Kg	☼	100	75 - 125	4	20
Zinc	103	F1 F2	49.5	118.0	F1 F2	mg/Kg	☼	30	75 - 125	34	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-610426/1-A
Matrix: Solid
Analysis Batch: 610546

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610426

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	U	0.021	0.0049	mg/Kg		12/30/21 13:32	12/30/21 14:35	1

Lab Sample ID: LCSSRM 480-610426/2-A ^10
Matrix: Solid
Analysis Batch: 610546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610426

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	27.2	18.52		mg/Kg		68.1	59.9 - 140.1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 480-193741-1 MS
Matrix: Solid
Analysis Batch: 610546

Client Sample ID: B1S2
Prep Type: Total/NA
Prep Batch: 610426

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.067		0.388	0.437		mg/Kg	☼	95	80 - 120

Lab Sample ID: 480-193741-1 MSD
Matrix: Solid
Analysis Batch: 610546

Client Sample ID: B1S2
Prep Type: Total/NA
Prep Batch: 610426

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.067		0.402	0.470		mg/Kg	☼	100	80 - 120	7	20

GC/MS VOA

Analysis Batch: 609984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193741-19	TMW1	Total/NA	Water	8260C	
480-193741-20	TMW2	Total/NA	Water	8260C	
480-193741-21	TMW3	Total/NA	Water	8260C	
480-193741-22	TMW4	Total/NA	Water	8260C	
MB 480-609984/8	Method Blank	Total/NA	Water	8260C	
LCS 480-609984/5	Lab Control Sample	Total/NA	Water	8260C	

Prep Batch: 610053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193741-3	B2S2	Total/NA	Solid	5035A_L	
480-193741-5	B3S3	Total/NA	Solid	5035A_L	
MB 480-610053/3-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-610053/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
LCSD 480-610053/2-A	Lab Control Sample Dup	Total/NA	Solid	5035A_L	

Analysis Batch: 610055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193741-3	B2S2	Total/NA	Solid	8260C	610053
480-193741-5	B3S3	Total/NA	Solid	8260C	610053
MB 480-610053/3-A	Method Blank	Total/NA	Solid	8260C	610053
LCS 480-610053/1-A	Lab Control Sample	Total/NA	Solid	8260C	610053
LCSD 480-610053/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	610053

Prep Batch: 610229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193741-1	B1S2	Total/NA	Solid	5035A_H	
480-193741-2	B1S3	Total/NA	Solid	5035A_H	
MB 480-610229/2-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-610229/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	

Analysis Batch: 610306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193741-1	B1S2	Total/NA	Solid	8260C	610229
480-193741-2	B1S3	Total/NA	Solid	8260C	610229
MB 480-610229/2-A	Method Blank	Total/NA	Solid	8260C	610229
LCS 480-610229/1-A	Lab Control Sample	Total/NA	Solid	8260C	610229

GC/MS Semi VOA

Prep Batch: 610190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193741-19	TMW1	Total/NA	Water	3510C	
480-193741-20	TMW2	Total/NA	Water	3510C	
MB 480-610190/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-610190/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-610190/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 610354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193741-19	TMW1	Total/NA	Water	8270D	610190
480-193741-20	TMW2	Total/NA	Water	8270D	610190

GC/MS Semi VOA (Continued)

Analysis Batch: 610354 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-610190/1-A	Method Blank	Total/NA	Water	8270D	610190
LCS 480-610190/2-A	Lab Control Sample	Total/NA	Water	8270D	610190
LCSD 480-610190/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	610190

Prep Batch: 610450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193741-1	B1S2	Total/NA	Solid	3550C	
480-193741-3	B2S2	Total/NA	Solid	3550C	
480-193741-4	B3S1	Total/NA	Solid	3550C	
480-193741-6	B4S1	Total/NA	Solid	3550C	
480-193741-7	B5S1	Total/NA	Solid	3550C	
480-193741-8	B6S1	Total/NA	Solid	3550C	
480-193741-9	B7S1	Total/NA	Solid	3550C	
480-193741-10	B8S1	Total/NA	Solid	3550C	
480-193741-11	B9S1	Total/NA	Solid	3550C	
480-193741-12	B10S1	Total/NA	Solid	3550C	
480-193741-13	B11S1	Total/NA	Solid	3550C	
480-193741-14	B12S1	Total/NA	Solid	3550C	
480-193741-15	B13S1	Total/NA	Solid	3550C	
480-193741-16	B14S1	Total/NA	Solid	3550C	
480-193741-17	B15S1	Total/NA	Solid	3550C	
480-193741-18	B16S1	Total/NA	Solid	3550C	
MB 480-610450/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-610450/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-193741-16 MS	B14S1	Total/NA	Solid	3550C	
480-193741-16 MSD	B14S1	Total/NA	Solid	3550C	

Analysis Batch: 610710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193741-1	B1S2	Total/NA	Solid	8270D	610450
480-193741-3	B2S2	Total/NA	Solid	8270D	610450
480-193741-4	B3S1	Total/NA	Solid	8270D	610450
480-193741-6	B4S1	Total/NA	Solid	8270D	610450
480-193741-7	B5S1	Total/NA	Solid	8270D	610450
480-193741-8	B6S1	Total/NA	Solid	8270D	610450
480-193741-9	B7S1	Total/NA	Solid	8270D	610450
480-193741-10	B8S1	Total/NA	Solid	8270D	610450
480-193741-11	B9S1	Total/NA	Solid	8270D	610450
480-193741-12	B10S1	Total/NA	Solid	8270D	610450
480-193741-13	B11S1	Total/NA	Solid	8270D	610450
480-193741-14	B12S1	Total/NA	Solid	8270D	610450
480-193741-15	B13S1	Total/NA	Solid	8270D	610450
480-193741-16	B14S1	Total/NA	Solid	8270D	610450
480-193741-17	B15S1	Total/NA	Solid	8270D	610450
480-193741-18	B16S1	Total/NA	Solid	8270D	610450
MB 480-610450/1-A	Method Blank	Total/NA	Solid	8270D	610450
LCS 480-610450/2-A	Lab Control Sample	Total/NA	Solid	8270D	610450
480-193741-16 MS	B14S1	Total/NA	Solid	8270D	610450
480-193741-16 MSD	B14S1	Total/NA	Solid	8270D	610450

Metals

Prep Batch: 610017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193741-1	B1S2	Total/NA	Solid	3050B	
480-193741-3	B2S2	Total/NA	Solid	3050B	
480-193741-4	B3S1	Total/NA	Solid	3050B	
480-193741-6	B4S1	Total/NA	Solid	3050B	
480-193741-7	B5S1	Total/NA	Solid	3050B	
480-193741-8	B6S1	Total/NA	Solid	3050B	
480-193741-9	B7S1	Total/NA	Solid	3050B	
480-193741-10	B8S1	Total/NA	Solid	3050B	
480-193741-11	B9S1	Total/NA	Solid	3050B	
480-193741-12	B10S1	Total/NA	Solid	3050B	
480-193741-13	B11S1	Total/NA	Solid	3050B	
480-193741-14	B12S1	Total/NA	Solid	3050B	
480-193741-15	B13S1	Total/NA	Solid	3050B	
480-193741-16	B14S1	Total/NA	Solid	3050B	
480-193741-17	B15S1	Total/NA	Solid	3050B	
480-193741-18	B16S1	Total/NA	Solid	3050B	
MB 480-610017/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-610017/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-193741-1 MS	B1S2	Total/NA	Solid	3050B	
480-193741-1 MSD	B1S2	Total/NA	Solid	3050B	

Analysis Batch: 610332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193741-1	B1S2	Total/NA	Solid	6010C	610017
480-193741-3	B2S2	Total/NA	Solid	6010C	610017
480-193741-4	B3S1	Total/NA	Solid	6010C	610017
480-193741-6	B4S1	Total/NA	Solid	6010C	610017
480-193741-7	B5S1	Total/NA	Solid	6010C	610017
480-193741-8	B6S1	Total/NA	Solid	6010C	610017
480-193741-9	B7S1	Total/NA	Solid	6010C	610017
480-193741-10	B8S1	Total/NA	Solid	6010C	610017
480-193741-11	B9S1	Total/NA	Solid	6010C	610017
480-193741-12	B10S1	Total/NA	Solid	6010C	610017
480-193741-13	B11S1	Total/NA	Solid	6010C	610017
480-193741-14	B12S1	Total/NA	Solid	6010C	610017
480-193741-15	B13S1	Total/NA	Solid	6010C	610017
480-193741-16	B14S1	Total/NA	Solid	6010C	610017
480-193741-17	B15S1	Total/NA	Solid	6010C	610017
480-193741-18	B16S1	Total/NA	Solid	6010C	610017
MB 480-610017/1-A	Method Blank	Total/NA	Solid	6010C	610017
LCSSRM 480-610017/2-A	Lab Control Sample	Total/NA	Solid	6010C	610017
480-193741-1 MS	B1S2	Total/NA	Solid	6010C	610017
480-193741-1 MSD	B1S2	Total/NA	Solid	6010C	610017

Analysis Batch: 610370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193741-11	B9S1	Total/NA	Solid	6010C	610017
480-193741-17	B15S1	Total/NA	Solid	6010C	610017
LCSSRM 480-610017/2-A	Lab Control Sample	Total/NA	Solid	6010C	610017

Metals

Prep Batch: 610426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193741-1	B1S2	Total/NA	Solid	7471B	
480-193741-3	B2S2	Total/NA	Solid	7471B	
480-193741-4	B3S1	Total/NA	Solid	7471B	
480-193741-6	B4S1	Total/NA	Solid	7471B	
480-193741-7	B5S1	Total/NA	Solid	7471B	
480-193741-8	B6S1	Total/NA	Solid	7471B	
480-193741-9	B7S1	Total/NA	Solid	7471B	
480-193741-10	B8S1	Total/NA	Solid	7471B	
480-193741-11	B9S1	Total/NA	Solid	7471B	
480-193741-12	B10S1	Total/NA	Solid	7471B	
480-193741-13	B11S1	Total/NA	Solid	7471B	
480-193741-14	B12S1	Total/NA	Solid	7471B	
480-193741-15	B13S1	Total/NA	Solid	7471B	
480-193741-16	B14S1	Total/NA	Solid	7471B	
480-193741-17	B15S1	Total/NA	Solid	7471B	
480-193741-18	B16S1	Total/NA	Solid	7471B	
MB 480-610426/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-610426/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	
480-193741-1 MS	B1S2	Total/NA	Solid	7471B	
480-193741-1 MSD	B1S2	Total/NA	Solid	7471B	

Analysis Batch: 610546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193741-1	B1S2	Total/NA	Solid	7471B	610426
480-193741-3	B2S2	Total/NA	Solid	7471B	610426
480-193741-4	B3S1	Total/NA	Solid	7471B	610426
480-193741-6	B4S1	Total/NA	Solid	7471B	610426
480-193741-7	B5S1	Total/NA	Solid	7471B	610426
480-193741-8	B6S1	Total/NA	Solid	7471B	610426
480-193741-9	B7S1	Total/NA	Solid	7471B	610426
480-193741-10	B8S1	Total/NA	Solid	7471B	610426
480-193741-11	B9S1	Total/NA	Solid	7471B	610426
480-193741-12	B10S1	Total/NA	Solid	7471B	610426
480-193741-13	B11S1	Total/NA	Solid	7471B	610426
480-193741-14	B12S1	Total/NA	Solid	7471B	610426
480-193741-15	B13S1	Total/NA	Solid	7471B	610426
480-193741-16	B14S1	Total/NA	Solid	7471B	610426
480-193741-17	B15S1	Total/NA	Solid	7471B	610426
480-193741-18	B16S1	Total/NA	Solid	7471B	610426
MB 480-610426/1-A	Method Blank	Total/NA	Solid	7471B	610426
LCSSRM 480-610426/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	610426
480-193741-1 MS	B1S2	Total/NA	Solid	7471B	610426
480-193741-1 MSD	B1S2	Total/NA	Solid	7471B	610426

General Chemistry

Analysis Batch: 610158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193741-1	B1S2	Total/NA	Solid	Moisture	
480-193741-2	B1S3	Total/NA	Solid	Moisture	
480-193741-3	B2S2	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 610158 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193741-4	B3S1	Total/NA	Solid	Moisture	
480-193741-5	B3S3	Total/NA	Solid	Moisture	
480-193741-6	B4S1	Total/NA	Solid	Moisture	
480-193741-7	B5S1	Total/NA	Solid	Moisture	
480-193741-8	B6S1	Total/NA	Solid	Moisture	
480-193741-9	B7S1	Total/NA	Solid	Moisture	
480-193741-10	B8S1	Total/NA	Solid	Moisture	
480-193741-11	B9S1	Total/NA	Solid	Moisture	
480-193741-12	B10S1	Total/NA	Solid	Moisture	
480-193741-13	B11S1	Total/NA	Solid	Moisture	
480-193741-14	B12S1	Total/NA	Solid	Moisture	
480-193741-15	B13S1	Total/NA	Solid	Moisture	
480-193741-16	B14S1	Total/NA	Solid	Moisture	
480-193741-17	B15S1	Total/NA	Solid	Moisture	
480-193741-18	B16S1	Total/NA	Solid	Moisture	

Client Sample ID: B1S2
Lab Sample ID: 480-193741-1
Date Collected: 12/21/21 09:00
Matrix: Solid
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610158	12/27/21 17:12	DSC	TAL BUF

Client Sample ID: B1S2
Lab Sample ID: 480-193741-1
Date Collected: 12/21/21 09:00
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			610229	12/28/21 11:44	WJD	TAL BUF
Total/NA	Analysis	8260C		20	610306	12/29/21 11:58	ATG	TAL BUF
Total/NA	Prep	3550C			610450	12/30/21 07:58	VXF	TAL BUF
Total/NA	Analysis	8270D		5	610710	01/04/22 12:57	JMM	TAL BUF
Total/NA	Prep	3050B			610017	12/27/21 14:21	NVK	TAL BUF
Total/NA	Analysis	6010C		1	610332	12/28/21 17:40	AMH	TAL BUF
Total/NA	Prep	7471B			610426	12/30/21 13:32	BMB	TAL BUF
Total/NA	Analysis	7471B		1	610546	12/30/21 14:41	BMB	TAL BUF

Client Sample ID: B1S3
Lab Sample ID: 480-193741-2
Date Collected: 12/21/21 09:15
Matrix: Solid
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610158	12/27/21 17:12	DSC	TAL BUF

Client Sample ID: B1S3
Lab Sample ID: 480-193741-2
Date Collected: 12/21/21 09:15
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			610229	12/28/21 11:44	WJD	TAL BUF
Total/NA	Analysis	8260C		50	610306	12/29/21 12:22	ATG	TAL BUF

Client Sample ID: B2S2
Lab Sample ID: 480-193741-3
Date Collected: 12/21/21 09:35
Matrix: Solid
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610158	12/27/21 17:12	DSC	TAL BUF

Client Sample ID: B2S2
Lab Sample ID: 480-193741-3
Date Collected: 12/21/21 09:35
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			610053	12/26/21 06:11	CDC	TAL BUF
Total/NA	Analysis	8260C		1	610055	12/26/21 18:30	CDC	TAL BUF

Client Sample ID: B2S2
Lab Sample ID: 480-193741-3

Date Collected: 12/21/21 09:35
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			610450	12/30/21 07:58	VXF	TAL BUF
Total/NA	Analysis	8270D		10	610710	01/04/22 13:21	JMM	TAL BUF
Total/NA	Prep	3050B			610017	12/27/21 14:21	NVK	TAL BUF
Total/NA	Analysis	6010C		1	610332	12/28/21 17:59	AMH	TAL BUF
Total/NA	Prep	7471B			610426	12/30/21 13:32	BMB	TAL BUF
Total/NA	Analysis	7471B		1	610546	12/30/21 14:46	BMB	TAL BUF

Client Sample ID: B3S1
Lab Sample ID: 480-193741-4

Date Collected: 12/21/21 09:55
Matrix: Solid
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610158	12/27/21 17:12	DSC	TAL BUF

Client Sample ID: B3S1
Lab Sample ID: 480-193741-4

Date Collected: 12/21/21 09:55
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			610450	12/30/21 07:58	VXF	TAL BUF
Total/NA	Analysis	8270D		10	610710	01/04/22 13:45	JMM	TAL BUF
Total/NA	Prep	3050B			610017	12/27/21 14:21	NVK	TAL BUF
Total/NA	Analysis	6010C		1	610332	12/28/21 18:03	AMH	TAL BUF
Total/NA	Prep	7471B			610426	12/30/21 13:32	BMB	TAL BUF
Total/NA	Analysis	7471B		1	610546	12/30/21 14:50	BMB	TAL BUF

Client Sample ID: B3S3
Lab Sample ID: 480-193741-5

Date Collected: 12/21/21 10:10
Matrix: Solid
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610158	12/27/21 17:12	DSC	TAL BUF

Client Sample ID: B3S3
Lab Sample ID: 480-193741-5

Date Collected: 12/21/21 10:10
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			610053	12/26/21 06:11	CDC	TAL BUF
Total/NA	Analysis	8260C		1	610055	12/26/21 18:55	CDC	TAL BUF

Client Sample ID: B4S1
Lab Sample ID: 480-193741-6

Date Collected: 12/21/21 10:15
Matrix: Solid
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610158	12/27/21 17:12	DSC	TAL BUF

Client Sample ID: B4S1
Lab Sample ID: 480-193741-6

Date Collected: 12/21/21 10:15
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			610450	12/30/21 07:58	VXF	TAL BUF
Total/NA	Analysis	8270D		10	610710	01/04/22 14:10	JMM	TAL BUF
Total/NA	Prep	3050B			610017	12/27/21 14:21	NVK	TAL BUF
Total/NA	Analysis	6010C		1	610332	12/28/21 18:06	AMH	TAL BUF
Total/NA	Prep	7471B			610426	12/30/21 13:32	BMB	TAL BUF
Total/NA	Analysis	7471B		1	610546	12/30/21 14:52	BMB	TAL BUF

Client Sample ID: B5S1
Lab Sample ID: 480-193741-7

Date Collected: 12/21/21 10:35
Matrix: Solid
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610158	12/27/21 17:12	DSC	TAL BUF

Client Sample ID: B5S1
Lab Sample ID: 480-193741-7

Date Collected: 12/21/21 10:35
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			610450	12/30/21 07:58	VXF	TAL BUF
Total/NA	Analysis	8270D		10	610710	01/04/22 14:34	JMM	TAL BUF
Total/NA	Prep	3050B			610017	12/27/21 14:21	NVK	TAL BUF
Total/NA	Analysis	6010C		1	610332	12/28/21 18:21	AMH	TAL BUF
Total/NA	Prep	7471B			610426	12/30/21 13:32	BMB	TAL BUF
Total/NA	Analysis	7471B		1	610546	12/30/21 14:53	BMB	TAL BUF

Client Sample ID: B6S1
Lab Sample ID: 480-193741-8

Date Collected: 12/21/21 11:00
Matrix: Solid
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610158	12/27/21 17:12	DSC	TAL BUF

Client Sample ID: B6S1
Lab Sample ID: 480-193741-8

Date Collected: 12/21/21 11:00
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			610450	12/30/21 07:58	VXF	TAL BUF
Total/NA	Analysis	8270D		1	610710	01/04/22 14:58	JMM	TAL BUF
Total/NA	Prep	3050B			610017	12/27/21 14:21	NVK	TAL BUF
Total/NA	Analysis	6010C		1	610332	12/28/21 18:25	AMH	TAL BUF
Total/NA	Prep	7471B			610426	12/30/21 13:32	BMB	TAL BUF
Total/NA	Analysis	7471B		10	610546	12/30/21 15:49	BMB	TAL BUF

Client Sample ID: B7S1
Lab Sample ID: 480-193741-9

Date Collected: 12/21/21 11:15
Matrix: Solid
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610158	12/27/21 17:12	DSC	TAL BUF

Client Sample ID: B7S1
Lab Sample ID: 480-193741-9

Date Collected: 12/21/21 11:15
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 75.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			610450	12/30/21 07:58	VXF	TAL BUF
Total/NA	Analysis	8270D		5	610710	01/04/22 15:23	JMM	TAL BUF
Total/NA	Prep	3050B			610017	12/27/21 14:21	NVK	TAL BUF
Total/NA	Analysis	6010C		1	610332	12/28/21 18:29	AMH	TAL BUF
Total/NA	Prep	7471B			610426	12/30/21 13:32	BMB	TAL BUF
Total/NA	Analysis	7471B		10	610546	12/30/21 15:51	BMB	TAL BUF

Client Sample ID: B8S1
Lab Sample ID: 480-193741-10

Date Collected: 12/21/21 11:25
Matrix: Solid
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610158	12/27/21 17:12	DSC	TAL BUF

Client Sample ID: B8S1
Lab Sample ID: 480-193741-10

Date Collected: 12/21/21 11:25
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			610450	12/30/21 07:58	VXF	TAL BUF
Total/NA	Analysis	8270D		5	610710	01/04/22 15:47	JMM	TAL BUF
Total/NA	Prep	3050B			610017	12/27/21 14:21	NVK	TAL BUF
Total/NA	Analysis	6010C		1	610332	12/28/21 18:33	AMH	TAL BUF
Total/NA	Prep	7471B			610426	12/30/21 13:32	BMB	TAL BUF
Total/NA	Analysis	7471B		1	610546	12/30/21 15:00	BMB	TAL BUF

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B9S1
Lab Sample ID: 480-193741-11
Date Collected: 12/21/21 11:30
Matrix: Solid
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610158	12/27/21 17:12	DSC	TAL BUF

Client Sample ID: B9S1
Lab Sample ID: 480-193741-11
Date Collected: 12/21/21 11:30
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			610450	12/30/21 07:58	VXF	TAL BUF
Total/NA	Analysis	8270D		20	610710	01/04/22 16:11	JMM	TAL BUF
Total/NA	Prep	3050B			610017	12/27/21 14:21	NVK	TAL BUF
Total/NA	Analysis	6010C		1	610332	12/28/21 18:36	AMH	TAL BUF
Total/NA	Prep	3050B			610017	12/27/21 14:21	NVK	TAL BUF
Total/NA	Analysis	6010C		2	610370	12/29/21 12:14	AMH	TAL BUF
Total/NA	Prep	7471B			610426	12/30/21 13:32	BMB	TAL BUF
Total/NA	Analysis	7471B		1	610546	12/30/21 15:01	BMB	TAL BUF

Client Sample ID: B10S1
Lab Sample ID: 480-193741-12
Date Collected: 12/21/21 11:35
Matrix: Solid
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610158	12/27/21 17:12	DSC	TAL BUF

Client Sample ID: B10S1
Lab Sample ID: 480-193741-12
Date Collected: 12/21/21 11:35
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			610450	12/30/21 07:58	VXF	TAL BUF
Total/NA	Analysis	8270D		5	610710	01/04/22 16:36	JMM	TAL BUF
Total/NA	Prep	3050B			610017	12/27/21 14:21	NVK	TAL BUF
Total/NA	Analysis	6010C		1	610332	12/28/21 18:40	AMH	TAL BUF
Total/NA	Prep	7471B			610426	12/30/21 13:32	BMB	TAL BUF
Total/NA	Analysis	7471B		10	610546	12/30/21 15:52	BMB	TAL BUF

Client Sample ID: B11S1
Lab Sample ID: 480-193741-13
Date Collected: 12/21/21 12:00
Matrix: Solid
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610158	12/27/21 17:12	DSC	TAL BUF

Client Sample ID: B11S1
Lab Sample ID: 480-193741-13

Date Collected: 12/21/21 12:00
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			610450	12/30/21 07:58	VXF	TAL BUF
Total/NA	Analysis	8270D		5	610710	01/04/22 17:00	JMM	TAL BUF
Total/NA	Prep	3050B			610017	12/27/21 14:21	NVK	TAL BUF
Total/NA	Analysis	6010C		1	610332	12/28/21 18:44	AMH	TAL BUF
Total/NA	Prep	7471B			610426	12/30/21 13:32	BMB	TAL BUF
Total/NA	Analysis	7471B		1	610546	12/30/21 15:05	BMB	TAL BUF

Client Sample ID: B12S1
Lab Sample ID: 480-193741-14

Date Collected: 12/21/21 12:15
Matrix: Solid
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610158	12/27/21 17:12	DSC	TAL BUF

Client Sample ID: B12S1
Lab Sample ID: 480-193741-14

Date Collected: 12/21/21 12:15
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			610450	12/30/21 07:58	VXF	TAL BUF
Total/NA	Analysis	8270D		10	610710	01/04/22 17:24	JMM	TAL BUF
Total/NA	Prep	3050B			610017	12/27/21 14:21	NVK	TAL BUF
Total/NA	Analysis	6010C		1	610332	12/28/21 18:48	AMH	TAL BUF
Total/NA	Prep	7471B			610426	12/30/21 13:32	BMB	TAL BUF
Total/NA	Analysis	7471B		1	610546	12/30/21 15:06	BMB	TAL BUF

Client Sample ID: B13S1
Lab Sample ID: 480-193741-15

Date Collected: 12/21/21 12:35
Matrix: Solid
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610158	12/27/21 17:12	DSC	TAL BUF

Client Sample ID: B13S1
Lab Sample ID: 480-193741-15

Date Collected: 12/21/21 12:35
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			610450	12/30/21 07:58	VXF	TAL BUF
Total/NA	Analysis	8270D		10	610710	01/04/22 17:49	JMM	TAL BUF
Total/NA	Prep	3050B			610017	12/27/21 14:21	NVK	TAL BUF
Total/NA	Analysis	6010C		1	610332	12/28/21 18:51	AMH	TAL BUF
Total/NA	Prep	7471B			610426	12/30/21 13:32	BMB	TAL BUF
Total/NA	Analysis	7471B		1	610546	12/30/21 15:10	BMB	TAL BUF

Client Sample ID: B14S1 — **Lab Sample ID: 480-193741-16**
Date Collected: 12/21/21 12:50 — **Matrix: Solid**
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610158	12/27/21 17:12	DSC	TAL BUF

Client Sample ID: B14S1 — **Lab Sample ID: 480-193741-16**
Date Collected: 12/21/21 12:50 — **Matrix: Solid**
Date Received: 12/22/21 14:57 — **Percent Solids: 90.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			610450	12/30/21 07:58	VXF	TAL BUF
Total/NA	Analysis	8270D		20	610710	01/04/22 12:32	JMM	TAL BUF
Total/NA	Prep	3050B			610017	12/27/21 14:21	NVK	TAL BUF
Total/NA	Analysis	6010C		1	610332	12/28/21 19:06	AMH	TAL BUF
Total/NA	Prep	7471B			610426	12/30/21 13:32	BMB	TAL BUF
Total/NA	Analysis	7471B		1	610546	12/30/21 15:12	BMB	TAL BUF

Client Sample ID: B15S1 — **Lab Sample ID: 480-193741-17**
Date Collected: 12/21/21 12:55 — **Matrix: Solid**
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610158	12/27/21 17:12	DSC	TAL BUF

Client Sample ID: B15S1 — **Lab Sample ID: 480-193741-17**
Date Collected: 12/21/21 12:55 — **Matrix: Solid**
Date Received: 12/22/21 14:57 — **Percent Solids: 90.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			610450	12/30/21 07:58	VXF	TAL BUF
Total/NA	Analysis	8270D		10	610710	01/04/22 18:13	JMM	TAL BUF
Total/NA	Prep	3050B			610017	12/27/21 14:21	NVK	TAL BUF
Total/NA	Analysis	6010C		1	610332	12/28/21 19:10	AMH	TAL BUF
Total/NA	Prep	3050B			610017	12/27/21 14:21	NVK	TAL BUF
Total/NA	Analysis	6010C		2	610370	12/29/21 12:17	AMH	TAL BUF
Total/NA	Prep	7471B			610426	12/30/21 13:32	BMB	TAL BUF
Total/NA	Analysis	7471B		1	610546	12/30/21 15:13	BMB	TAL BUF

Client Sample ID: B16S1 — **Lab Sample ID: 480-193741-18**
Date Collected: 12/21/21 14:00 — **Matrix: Solid**
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610158	12/27/21 17:12	DSC	TAL BUF

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Client Sample ID: B16S1
Lab Sample ID: 480-193741-18
Date Collected: 12/21/21 14:00
Matrix: Solid
Date Received: 12/22/21 14:57
Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			610450	12/30/21 07:58	VXF	TAL BUF
Total/NA	Analysis	8270D		10	610710	01/04/22 18:38	JMM	TAL BUF
Total/NA	Prep	3050B			610017	12/27/21 14:21	NVK	TAL BUF
Total/NA	Analysis	6010C		1	610332	12/28/21 19:14	AMH	TAL BUF
Total/NA	Prep	7471B			610426	12/30/21 13:32	BMB	TAL BUF
Total/NA	Analysis	7471B		1	610546	12/30/21 15:14	BMB	TAL BUF

Client Sample ID: TMW1
Lab Sample ID: 480-193741-19
Date Collected: 12/21/21 09:55
Matrix: Water
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		80	609984	12/23/21 17:52	LCH	TAL BUF
Total/NA	Prep	3510C			610190	12/28/21 09:02	JMP	TAL BUF
Total/NA	Analysis	8270D		10	610354	12/29/21 20:40	PJQ	TAL BUF

Client Sample ID: TMW2
Lab Sample ID: 480-193741-20
Date Collected: 12/21/21 10:30
Matrix: Water
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	609984	12/23/21 18:14	LCH	TAL BUF
Total/NA	Prep	3510C			610190	12/28/21 09:02	JMP	TAL BUF
Total/NA	Analysis	8270D		1	610354	12/29/21 21:08	PJQ	TAL BUF

Client Sample ID: TMW3
Lab Sample ID: 480-193741-21
Date Collected: 12/21/21 11:45
Matrix: Water
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	609984	12/23/21 18:36	LCH	TAL BUF

Client Sample ID: TMW4
Lab Sample ID: 480-193741-22
Date Collected: 12/21/21 12:30
Matrix: Water
Date Received: 12/22/21 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	609984	12/23/21 18:59	LCH	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
5035A_H	Closed System Purge and Trap	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF

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 BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Job ID: 480-193741-1
Project/Site: Simon Properties

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-193741-1	B1S2	Solid	12/21/21 09:00	12/22/21 14:57
480-193741-2	B1S3	Solid	12/21/21 09:15	12/22/21 14:57
480-193741-3	B2S2	Solid	12/21/21 09:35	12/22/21 14:57
480-193741-4	B3S1	Solid	12/21/21 09:55	12/22/21 14:57
480-193741-5	B3S3	Solid	12/21/21 10:10	12/22/21 14:57
480-193741-6	B4S1	Solid	12/21/21 10:15	12/22/21 14:57
480-193741-7	B5S1	Solid	12/21/21 10:35	12/22/21 14:57
480-193741-8	B6S1	Solid	12/21/21 11:00	12/22/21 14:57
480-193741-9	B7S1	Solid	12/21/21 11:15	12/22/21 14:57
480-193741-10	B8S1	Solid	12/21/21 11:25	12/22/21 14:57
480-193741-11	B9S1	Solid	12/21/21 11:30	12/22/21 14:57
480-193741-12	B10S1	Solid	12/21/21 11:35	12/22/21 14:57
480-193741-13	B11S1	Solid	12/21/21 12:00	12/22/21 14:57
480-193741-14	B12S1	Solid	12/21/21 12:15	12/22/21 14:57
480-193741-15	B13S1	Solid	12/21/21 12:35	12/22/21 14:57
480-193741-16	B14S1	Solid	12/21/21 12:50	12/22/21 14:57
480-193741-17	B15S1	Solid	12/21/21 12:55	12/22/21 14:57
480-193741-18	B16S1	Solid	12/21/21 14:00	12/22/21 14:57
480-193741-19	TMW1	Water	12/21/21 09:55	12/22/21 14:57
480-193741-20	TMW2	Water	12/21/21 10:30	12/22/21 14:57
480-193741-21	TMW3	Water	12/21/21 11:45	12/22/21 14:57
480-193741-22	TMW4	Water	12/21/21 12:30	12/22/21 14:57

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: JAKE TRACY	Lab PM: Giacomazza, Joe V	Carrier Tracking No(s):	COC No: 480-168767-36870.1
Client Contact: Jake Tracy	Phone: 907 575 2005	E-Mail: joe.giacomazza@testamericainc.com	State of Origin: NY	Page: Page 1 of 2
Company: Brydges Engineering in Environment & Energy DPC	PWSID:			Job #:
Address: 960 Busti Ave Suite B-150	Due Date Requested:			
City: Buffalo	TAT Requested (days): 10			
State, Zip: NY, 14213	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: jtracy@be3corp.com	WO #:			
Project Name: BE3 Corp	Project #: 48024347			
Site: SIMON PROPERTIES	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B	8270D - TCL SVOCs	8260C - TCL VOCs	8260C - TCL VOCs	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	A		
B152	12/21/21	900	G	Solid	N	Y	✓	✓	✓			
B193		915		Solid					✓			
B252		935		Solid			✓	✓	✓			
B351		955		Solid			✓	✓				
B353		1010		Solid					✓	✓ 5T		
B451		1015		Solid			✓	✓				
B551		1035		Solid			✓	✓				
B651		1100		Solid			✓	✓				
B751		1115		Solid			✓	✓				
B851		1125		Solid			✓	✓				
B951		1130		Solid			✓	✓				

480-193741 Chain of Custody

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	JAKE TRACY	12/22/21 1457	BE3			
2						
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.1 #1

Ver: 06/08/2021

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Giacomazza, Joe V	Carrier Tracking No(s):	COC No: 480-168767-36870.2
Client Contact: Jake Tracy	Phone:	E-Mail: joe.giacomazza@testamericainc.com	State of Origin:	Page: Page 2 of 2
Company: Brydges Engineering in Environment & Energy DPC	PWSID:			Job #:
Address: 960 Busti Ave Suite B-150	Due Date Requested:			
City: Buffalo	TAT Requested (days):			
State, Zip: NY, 14213	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: jtracy@be3corp.com	WO #:			
Project Name: BE3 Corp	Project #: 48024347			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B	8270D - TCL SVOCs	8260C - TCL VOCs	8260C - TCL VOCs										Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A											
B10S1	12/21/21	1135	G	Solid	N	Y	✓	✓													
B11S1		1200		Solid			✓	✓													
B12S1		1215		Solid			✓	✓													
B13S1		1235		Solid			✓	✓													
B14S1		1250		~~Water~~ Solid			✓	✓													
B15S1		1255		~~Water~~ Solid			✓	✓													
B16S1		1400		~~Water~~ Solid			✓	✓													
TMW1		955		~~Water~~ water				✓		✓											
TMW2		1030		~~Water~~ water				✓		✓											
TMW3		1145		water						✓											
TMW4		1230		water						✓											

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
JAKE TRACY	12/22/21 1457				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/22/21 1457	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Ene

Job Number: 480-193741-1

Login Number: 193741

List Source: Eurofins Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	