St. Paul's Transit Site
300 St. Paul's Boulevard
Norfolk, Virginia

Limited Phase II Environmental Site Assessment

The City of Norfolk
Office of Resilience
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SCS ENGINEERS

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1 INTRODUCTION

SCS Engineers (SCS) has completed a limited Phase II Environmental Site Assessment (ESA) for the St. Paul's Transit Site located on the city block bounded by Wood Street (north), Market Street (south), Fenchurch Street (east) and St Pauls Boulevard (west) in Norfolk, Virginia (Site Location Map; **Figure 1** in **Appendix A**). The property parcels that make up the Subject Site are described in the Norfolk Tax Records as:

Parcels A & B-1, Parcel C-1, Pt Parcel C1, Parcel C-2, Unit 8, Unit 1 Popeyes, and Unit 18
300 St. Paul's Blvd.
450 St Paul's Blvd.
501 Wood St.
450 Posey Ln.

Partial Properties: **Parcel 48; 338 ft 805-821 Mariner St.; Blks A,B,C,H,I,J & Pt G Tdwtr Pk; and 54.3 ft & Parcel 46**
201 Chapel St.
317 Chapel St.
450 Walke St.
830 Holt St.

The parcels (totaling approximately 40 acres) are currently developed with two fast-food restaurants (Popeye's and McDonalds), a Shell gasoline service station, the Hampton Roads Transit (HRT) bus terminal, the Norfolk Fire Station No. 1, parking lots, portions of the Tidewater Gardens residential units, and a vacant lot. A Site Features Map is provided as **Figure 2** in **Appendix A**.

A Phase I ESA of the Subject Site was completed by SCS in May 2019; a summary is provided as **Section 1.1.1** of this report. As two Recognized Environmental Conditions (RECs), three HRECs, and two Business Environmental Risks (BERs), were identified, SCS recommended that a limited Phase II ESA be conducted.

The field work for the limited Phase II ESA was performed by SCS between January and March 2020. The assessment included advancing seventeen (originally proposed sixteen) direct-push borings to collect both soil and groundwater samples.

1.1 PROPERTY HISTORY & BACKGROUND

1.1.1 Phase I ESA Summary

The following is a summary of the May 2019 Phase I ESA findings.

According to historical record sources, the Subject Site has been developed, and occupied by numerous roadways, commercial entities, and dwellings between 1887 and 1950. After the 1950s, but before 1970, the Subject Site was reconfigured and redeveloped into a single block with commercial structures that included a gasoline service station, auto repair facility, and dry cleaners. By 2008, the Subject Site configuration is consistent with present day visual observations made during the Subject Site reconnaissance. The western portion of the property is developed with six structures, while the remaining areas of the Subject Site are paved parking lots, portions of the Tidewater Gardens dwellings, and a vacant lot. The structures include a Popeye's, McDonalds, Shell gasoline station and associated canopy, HRT bus terminal shelters, and Norfolk Fire Station No. 1.

Recognized Environmental Conditions (RECs)

- Historical sources indicate that the property was occupied by an automotive repair facility (Roland's Auto Service Center) and dry cleaners (Dry Cleaning of Virginia Beach) for over 30 years (1970 to 2006). The long-term use of the property for these services indicates a potential for subsurface contamination.

- Historical information sources indicate multiple USTs in use on the Subject Site from at least 1970 to the present, including Roland's Auto Service Center, Amoco, Holiday Foods/Texaco, and Shell gasoline station. The long-term use of USTs at the Subject Site is considered an environmental concern and a REC.

Historical Recognized Environmental Conditions (HRECs)

- An Emergency Response Notification report from 1995 for a surficial spill of approximately 150-gallons of diesel fuel is considered a HREC. According to the EDR database report, the spill was reportedly contained and cleaned up. However, information concerning the investigation and remedial actions was not obtained, which is considered a data gap.

- The former Amoco #2033 – Tanks database listing. Information obtained from the Virginia Department of Environmental Quality (VDEQ) indicated a release resulting from UST use at this former facility. Free product was found in the groundwater. Environmental investigations were performed, including the removal of USTs and associated lines. Residual and dissolved phase petroleum contaminant levels were relatively low and the VDEQ issued a no further action letter in August 1994. The former release and resulting environmental investigations performed, including the closure of the case, is considered a HREC to the Subject Site.

- A former leaking tank associated with the Norfolk Redevelopment and Housing Authority (NRHA) – Tidewater Park database listing. Free product in soils were discovered during the removal of USTs. Environmental investigation reports were obtained from the VDEQ, which summarize abatement measures taken. Based on these reports and low levels of subsurface contamination, the VDEQ issued a no further action letter in August 1994. The former release, resulting environmental investigations and remedial actions, and case closure from VDEQ is considered a HREC to the Subject Site.

Controlled Recognized Environmental Conditions (CRECs)

- Controlled RECs were not identified during completion of the May 2019 Phase I ESA.

Business Environmental Risk (BER)

- The use of the Subject Site as a gasoline service station with two USTs on-site (Shell gasoline station) and the use of an emergency generator UST at the Norfolk Fire Station No. 1.

- The relatively long-term use of the property as an automotive repair facility and a drycleaners, as well as numerous USTs being used on-site and the resulting subsurface contamination.

Vapor Encroachment Condition:

- Based on the information obtained for the Phase I ESA, the potential for impacts from off-site sources is considered low, and the off-site sources do not represent a potential vapor encroachment condition (VEC) to the Subject Site.

Adjoining Properties of Environmental Interest

The areas surrounding the Subject Site were developed with residential and commercial properties with the additional development of commercial properties occurring over the years. The adjacent U.S. Post Office, located to the east/northeast is of potential concern to the Subject Site.

1.2 INVESTIGATION OBJECTIVES

Due to the past uses of potential environmental concern on the Subject Site and adjoining properties, SCS recommended that a limited subsurface assessment be conducted to evaluate the potential for soil and groundwater to have been impacted by currently regulated substances. Our recommendations included advancement of seventeen (originally proposed sixteen) direct-push borings to an approximate depth of 12 feet below ground surface (bgs).

This limited Phase II ESA was conducted in general conformance with the methods described in the Field Sampling Plan (FSP) for Limited Phase II Environmental Site Assessment for Petroleum Sites by SCS Engineers dated January 8, 2020. The use of the methods described in the FSP provides a framework for employing good commercial and customary practices in conducting Phase II ESAs.

Regulatory screening and reporting levels were used when comparing the Subject Site's detected soil and groundwater constituent concentrations. Screening and reporting levels serve as indicators of potential problems that generally require further investigation. The Virginia Voluntary Remediation Program (VRP) Tier II Screening Levels - Residential Table 2.0 dated June 2019, the EPA Region III Screening Levels (RSLs) Summary Table - Residential Soil April 2019, as well as the VDEQ Storage Tank Program reporting levels were used to evaluate the detected constituent concentrations.

1.3 LIMITATIONS

It should be understood our findings and conclusions presented will not be scientific certainties, but rather opinions based on our professional judgment concerning the significance of the data reviewed or obtained during the course of the study. SCS does not and cannot represent that the Subject Site contains no hazardous or toxic materials, products, or other latent conditions beyond that observed by SCS during limited Phase II ESA activities. Further, the services herein shall in no way be construed, designed, or intended to be relied upon as legal interpretation or advice.

This report has been prepared solely for the City of Norfolk (City) for its use and reliance in understanding the soil and groundwater conditions at the Subject Site. Reliance on this report by any other party may involve assumptions whose extent and nature lead to a distorted meaning and impact of the findings and opinions related herein. With the consent of the City and SCS, we may be available to discuss findings and opinions related specifically to other parties' unique risk management concerns related to the Subject Site.

2 PHYSICAL SETTING INFORMATION

2.1 TOPOGRAPHY AND SURFACE WATER CHARACTERISTICS

A topographic map for the Subject Site's vicinity was reviewed and is summarized as follows:

Reported Elevation	Approximately 10 feet above mean sea level.
Reported Slope Direction	The topography of the Subject Site is generally flat, with surfaces graded towards the perimeter of the property and towards bisecting roadways within the property. Storm drains are located throughout the property along the perimeter of the property, as well as along bisecting roadways.
Source	United States Geological Survey 7.5 Minute Topographic Maps, Norfolk South, Virginia, 2013.

2.2 REGIONAL GEOLOGY

The Subject Site is located in the Atlantic Coastal Plain physiographic province, which consists of an eastward-thickening wedge of stratified, unconsolidated to semi-consolidated alluvial and marine deposits. The sediments consist primarily of sand, clay, silt, and gravel with various amounts of shell material that range in age from Cretaceous to Holocene. Underlying the Coastal Plain sediments is a basement rock surface composed of igneous and metamorphic rocks that range in age from Precambrian to Paleozoic. The consolidated rock basement surface forms the basal limit of the Coastal Plain hydrogeologic system, greater than 2,000 feet below the ground surface. Near-surface soil conditions at the Subject Site may have been altered by construction and other activities associated with present day development.

According to the Environmental Data Resources' (EDR's) Report Geocheck Physical Setting Source (in the May 2019 Phase I ESA), the lithology in the vicinity of the Subject Site is described as being from the Cenozoic Era, the Quarternary System, and the Pleistocene Series. The Subject Site is reported to be underlain by Urban Land soils.

2.3 REGIONAL GROUNDWATER CONDITIONS

According to topographic map interpretation, the Subject Site is generally flat. Stormwater is directed to storm drains located throughout the property. The average regional groundwater flow direction is assumed to be to the south/southwest towards the Eastern Branch of the Elizabeth River.

3 FIELD ACTIVITIES

3.1 BORING ADVANCEMENT AND SOIL SAMPLING

Drilling activities were performed on January 21 and 22, 2020, and March 9, 2020 using direct-push services provided by Fishburne Drilling of Chesapeake, Virginia. Soil borings (B-1 through B-17; **Figure 3** in **Appendix A**) were advanced to total depths of approximately 12 feet bgs using a Geoprobe Systems 5410 direct-push rig. The following borings were advanced at the areas of concern:

- one boring (B-1) near the Fire Station's emergency generator
- two borings (B-3 and B-4) at the former Roland's automotive center
- four borings (B-7, 8, 9, and 10) at the former dry cleaners, and
- two borings (B-15 and B-16) down-gradient of the Shell gasoline station tank field.

One additional boring (B-17) was advanced at the former dry cleaners during a second mobilization in order to obtain a duplicate groundwater sample. Seven borings were advanced to provide coverage of the remainder of the property.

Stainless steel rods with two-inch diameter core barrels equipped with disposable acetate liners were hydraulically driven into the subsurface to obtain continuous soil samples from the ground surface to termination of probing at each boring location. Once retrieved, soil was logged by the field engineer in accordance with the Unified Soil Classification System (soil boring logs are included in **Appendix B**.)

Photo ionization detector (PID) field screening of the soil cores was conducted during sample collection using a MiniRAE 3000 volatile organic compound (VOC) monitor equipped with an 11.6 eV lamp. VOC readings above background levels were recorded during the field work and a summary of the highest readings are provided below (**Table 1**).

Table 1. Summary PID Readings

Boring No.	Depth Interval (Feet)	Highest PID Reading	Units
B-1	5-7	0.2	ppm
B-2	0-2	0.2	ppm
B-3	2-4	0.2	ppm
B-4	5.5-6.5	0.6	ppm
B-5	0-3	21.6	ppm
B-6	0-3	0.5	ppm
B-7	3-4	0.4	ppm
B-8	2.5-3.5	138	ppm
B-9	0-1	235	ppm
B-10	3-4.5	0.2	ppm
B-11	0-5	0.0	ppm
B-12	0-6.5	0.0	ppm
B-13	0-7.5	0.0	ppm
B-14	0-7	0.0	ppm
B-15	7	3,520	ppm
B-16	0-5	0.1	ppm

Boring No.	Depth Interval (Feet)	Highest PID Reading	Units
B-17	0-8	0.0	ppm

Notes:
ppm – parts per million

Representative soil samples were collected from each of the seventeen (originally proposed sixteen) borings. Soil samples were transferred into clean, unused containers provided by the analytical laboratory. Samples were immediately placed on ice and stored at approximately 4° Celsius (C) until analysis. Nitrile gloves used during sampling were disposed of following sample collection.

The soil samples and coolers were transported to Eurofins (TestAmerica) Laboratories for chemical analysis. The samples were subsequently analyzed for TPH Gasoline-and Diesel Range Organics (Method 8015C), VOCs (Method 8260B), Lead (Method 6010C), and Mercury (Method 7471B). In addition, samples collected from borings B-3 and B-4, were also analyzed for polychlorinated biphenyls (PCBs) (Method 8082A) and SVOCs (Method 8270D). The samples were analyzed and handled according to the laboratory's QA/QC Plan. Equipment and field blanks were not needed because no decontamination of sampling equipment was performed. Laboratory results for soil samples are presented in **Table 2.** The Eurofins analytical laboratory report and chain of custody (COC) documentation are provided in **Appendix C**.

3.2 GROUNDWATER SAMPLING

One-inch diameter Schedule 40 PVC (new with threaded flush joints) temporary groundwater monitoring wells (TW-1 through TW-16) were installed immediately following borehole advancement to collect groundwater samples from the upper portion of the saturated zone (shallow sample). The screened sections of the wells were placed from the bottom of the borings (12 feet bgs) to approximately 2 feet bgs (across the top of the water table) with solid PVC pipe to the ground surface. Filter sand was then placed from the bottom of the borings to approximately 6 inches above the top of the screened sections, followed by bentonite pellets (hydrated) to the ground surface. The shallow groundwater samples were subsequently collected from the wells using a peristaltic pump with dedicated tubing on January 27, 29, and 30; and, February 3, 2020. The peristaltic pump tubing inlet was placed at approximately a foot from the bottom of the screened section of the wells. The relative elevations of the tops of the well casings were surveyed, and the water levels in each well were measured prior to sampling. Upon collection of groundwater samples, the temporary wells were abandoned.

Subsequently, upon review of laboratory COCs, it was evident that a duplicate sample was not collected. Since the temporary wells were abandoned, another one-inch diameter Schedule 40 PVC temporary groundwater monitoring well (TW-17) was installed on March 9, 2020. The shallow groundwater samples, including the duplicate sample, were subsequently collected from TW-17 on March 10, 2020.

Field QA/QC sampling included collection of a duplicate groundwater sample (from TW-17). Equipment and field blanks were not needed because no field decontamination of equipment was performed. Groundwater sampling logs are included in **Appendix D**.

Upon collection, groundwater and QA/QC samples were immediately placed on ice and stored at approximately 4°C. Nitrile gloves used during sampling were disposed of following sample collection.

The samples and coolers were transported to Eurofins (TestAmerica) Laboratories for chemical analysis.

Analyses included VOCs (Method 8260B) and TPH Gasoline-and Diesel Range Organics (Method 8015B and C). Additionally, PCBs (Method 8082A) and SVOCs (Method 8270D) were analyzed for groundwater samples collected from TW-3, TW-4, and TW-17. The samples were analyzed and handled according to the laboratory's QA/QC Plan. Laboratory results for groundwater samples are presented in **Table 3.** The Eurofins analytical laboratory report and COC documentation are provided in **Appendix C**.

4 FINDINGS

4.1 GEOLOGY & HYDROGEOLOGY

In general, the Subject Site's geology consists of Cretaceous to Holocene age sediments that include sand, clay, silt, and gravel with various amounts of shell material. Unconsolidated subsurface materials encountered during this investigation consisted primarily of a silty sand layer underlain by a clay layer. The clay is generally gray with orange streaking and is of high plasticity. Below the clay layer is a gray-brown-tan colored silty sand to the bottom of each boring. The silty sand is generally well-graded. Groundwater was generally encountered in the borings at depths ranging from 4 to 8 feet bgs. Soil boring logs are included in **Appendix B**.

4.2 SOIL ANALYTICAL RESULTS

Risk-based screening levels are concentrations derived from standardized equations combining exposure information assumptions with EPA toxicity data. Screening levels are considered by the Agency to be protective for humans over a lifetime; however, are generic and not always applicable to a particular site (i.e., they are calculated without site-specific information). These levels may be recalculated using site-specific data.

Tetrachloroethene (PCE): As shown on Table 2, two boring locations, B-9 and B-10, contained detectable concentrations of tetrachlorothene, also known as perchloroethylene or PCE, above the EPA's Risk-Based RSLs. The detected concentrations were 0.0081 mg/Kg (B-10) and 0.013 mg/Kg (B-9) compared with the EPA Risk-Based RSL of 0.0051 mg/Kg. The concentrations are not above the VRP Tier II Screening Level of 0.045 mg/Kg or EPA's Residential or Industrial RSLs of 24 and 100 mg/Kg, respectively.

Lead: As shown on **Table 2,** all surficial and subsurface soil samples (where analyzed for lead), with the exception of B-3 and B-4, exhibited detections of lead, although not at concentrations above applicable screening or reporting levels. The VRP Tier II Screening Level and EPA Residential RSL for lead is 400 mg/Kg; and, the EPA Industrial RSL for lead is 800 mg/Kg. The detected concentrations ranged from 2.8 to 290 mg/Kg, which is within the range of naturally occurring lead.

Mercury: As shown on **Table 2**, five boring locations, B-5, B-6, B-7, B-8, and B-12, exhibited detectable concentrations of mercury above the EPA's Risk-Based RSLs. The detected concentrations ranged from 0.034 mg/Kg (B-7) to 0.062 mg/Kg (B-12) compared with the EPA Risk-Based RSL of 0.033 mg/Kg. The concentrations are not above the VRP Tier II Screening Level of 1.1 mg/Kg or EPA's Residential or Industrial RSLs of 11 and 46 mg/Kg, respectively.

Petroleum Hydrocarbons (TPH): As shown on **Table 2**, each of the soil samples, with the exception of B-1, B-13 and B-17, exhibited detections of TPH. TPH Diesel Range Organics (DRO) and TPH Gasoline Range Organics (GRO) were detected in soil samples, but not above the VDEQ reporting level of 100 mg/Kg. The TPH (Oil Range Organics (ORO) concentration at B-6 exceeded the VDEQ reporting level at a concentration of 320 mg/Kg.

Table 2. Soil Sampling Results Summary

Sample No.	Depth Interval (feet)	Detected Constituent	Detected Concentration	VRP Tier II Screening Level (2)	EPA Region III Residential RSL (3)	EPA Region III Industrial RSL (4)	EPA Region III Risk-Based RSL (5)	VDEQ Reporting Level (6)	Units
B-1	0-7	Lead	6.1	400	400	800	NA	NA	mg/Kg
B-2	0-5	Gasoline Range Organics	0.48	NA	NA	NA	NA	100	mg/Kg
		Lead	93	400	400	800	NA	NA	mg/Kg
		Mercury	0.26	1.1	11	46	0.033	NA	mg/Kg
B-3	0-6	Diesel Range Organics	17	NA	NA	NA	NA	100	mg/Kg
		Oil Range Organics	42	NA	NA	NA	NA	100	mg/Kg
B-4	0-6	Diesel Range Organics	18	NA	NA	NA	NA	100	mg/Kg
		Oil Range Organics	40	NA	NA	NA	NA	100	mg/Kg
B-5	0-4	Diesel Range Organics	23	NA	NA	NA	NA	100	mg/Kg
		Lead	12	400	400	800	NA	NA	mg/Kg
		Mercury	**0.041**	1.1	11	46	0.033	NA	mg/Kg
B-6	0-5	Oil Range Organics	**320**	NA	NA	NA	NA	100	mg/Kg
		Lead	19	400	400	800	NA	NA	mg/Kg
		Mercury	**0.047**	1.1	11	46	0.033	NA	mg/Kg
B-7	0-4	Oil Range Organics	32	NA	NA	NA	NA	100	mg/Kg
		Lead	10	400	400	800	NA	NA	mg/Kg
		Mercury	**0.034**	1.1	11	46	0.033	NA	mg/Kg
B-8	2-6	Gasoline Range Organics	0.13	NA	NA	NA	NA	100	mg/Kg
		Diesel Range Organics	7.7	NA	NA	NA	NA	100	mg/Kg
		Oil Range Organics	7.1	NA	NA	NA	NA	100	mg/Kg
		Lead	6.7	400	400	800	NA	NA	mg/Kg
		Mercury	**0.038**	1.1	11	46	0.033	NA	mg/Kg

Sample No.	Depth Interval (feet)	Detected Constituent	Detected Concentration	VRP Tier II Screening Level (2)	EPA Region III Residential RSL (3)	EPA Region III Industrial RSL (4)	EPA Region III Risk-Based RSL (5)	VDEQ Reporting Level (6)	Units
B-9	0-5	Tetrachloroethene	**0.013**	0.045	24	100	0.0051	NA	mg/Kg
		Diesel Range Organics	15	NA	NA	NA	NA	100	mg/Kg
		Oil Range Organics	19	NA	NA	NA	NA	100	mg/Kg
		Lead	5.7	400	400	800	NA	NA	mg/Kg
B-10	0-4.5	Tetrachloroethene	**0.0081**	0.045	24	100	0.0051	NA	mg/Kg
		Diesel Range Organics	24	NA	NA	NA	NA	100	mg/Kg
		Oil Range Organics	22	NA	NA	NA	NA	100	mg/Kg
		Lead	3.2	400	400	800	NA	NA	mg/Kg
B-11	0-5	Diesel Range Organics	9.9	NA	NA	NA	NA	100	mg/Kg
		Oil Range Organics	22	NA	NA	NA	NA	100	mg/Kg
		Lead	9.2	400	400	800	NA	NA	mg/Kg
		Mercury	0.026	1.1	11	46	0.033	NA	mg/Kg
B-12	0-6	Diesel Range Organics	7.9	NA	NA	NA	NA	100	mg/Kg
		Oil Range Organics	18	NA	NA	NA	NA	100	mg/Kg
		Lead	4.1	400	400	800	NA	NA	mg/Kg
		Mercury	**0.062**	1.1	11	46	0.033	NA	mg/Kg
B-13	0-7	Lead	4.4	400	400	800	NA	NA	mg/Kg
		Mercury	0.022	1.1	11	46	0.033	NA	mg/Kg
B-14	0-8	Diesel Range Organics	50	NA	NA	NA	NA	100	mg/Kg
		Oil Range Organics	77	NA	NA	NA	NA	100	mg/Kg
		Lead	290	400	400	800	NA	NA	mg/Kg
		Mercury	0.35	1.1	11	46	0.033	NA	mg/Kg
B-15	0-7	Acetone	0.091	5.74	61,000	670,000	2.9	NA	mg/Kg
		Diesel Range Organics	6	NA	NA	NA	NA	100	mg/Kg
		Lead	2.8	400	400	800	NA	NA	mg/Kg

Sample No.	Depth Interval (feet)	Detected Constituent	Detected Concentration	VRP Tier II Screening Level (2)	EPA Region III Residential RSL (3)	EPA Region III Industrial RSL (4)	EPA Region III Risk-Based RSL (5)	VDEQ Reporting Level (6)	Units
B-16	0-5	Diesel Range Organics	26	NA	NA	NA	NA	100	mg/Kg
		Oil Range Organics	50	NA	NA	NA	NA	100	mg/Kg
		Lead	8.3	400	400	800	NA	NA	mg/Kg
B-17	4-8	No Detections	-	-	-	-	-	-	-

Notes:

(1) Samples collected January 21 and 22, 2020, and March 9, 2020.

(2) VRP Tier II Screening Levels - Residential Table 2.0 dated June 2019

(3) EPA Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) Residential Soil November 2019

(4) EPA RSL Summary Table (TR=1E-06, HQ=1) Industrial Soil November 2019

(5) EPA RSL Summary Table (TR=1E-06, HQ=1) Risk-Based Soil November 2019

(6) VDEQ Reporting Level Storage Tank Program Technical Manual Fourth Edition May 2011

NA - Not Applicable

4.3 GROUNDWATER ANALYTICAL RESULTS

VOCs: Concentrations of the VOCs naphthalene, tetrachloroethene, and benzene exceeded VRP Tier II Screening Levels in groundwater samples collected from TW-3, TW-7, TW-10 and TW-15 (**Table 3**). Tetrachloroethene was detected at a concentration of 7.2 ug/L in the groundwater samples collected from both TW-7 and TW-10 compared to the respective VRP Tier II Screening Level of 5 ug/L. Benzene was detected at a concentration of 5.9 ug/L in the groundwater sample collected from TW-15 compared to the respective VRP Tier II Screening Level of 5 ug/L. The remaining detectable concentrations of VOCs did not exceed applicable screening levels or reporting levels.

Petroleum Hydrocarbons (TPH): TPH DRO and GRO were detected above laboratory reporting limits in groundwater samples collected from temporary groundwater monitoring wells TW-1, TW-2, TW-3, TW-4, TW-6, TW-11, TW-15, and TW-16 (**Table 3**). None of the detected concentrations exceeded applicable screening or reporting levels.

PCBs and SVOCs: PCBs were not detected in the groundwater samples collected from temporary groundwater monitoring wells TW-3 and TW-4. Naphthalene was detected at a concentration of 2.5 ug/L in the groundwater sample collected from TW-3 compared to the respective VRP Tier II Screening Level of 0.61 ug/L.

Table 3. Groundwater Sampling Results Summary

Sample No.	Detected Constituent	Detected Concentration	VRP Tier II Screening Level (2)	EPA Region III RSL (3)	VDEQ Reporting Level (4)	Units
TW-1	Diesel Range Organics	140	NA	NA	1000	ug/L
TW-2	Diesel Range Organics	780	NA	NA	1000	ug/L
TW-3	Naphthalene	**2.5**	0.61	0.17	NA	ug/L
	Diesel Range Organics	200	NA	NA	1000	ug/L
TW-4	Diesel Range Organics	560	NA	NA	1000	ug/L
TW-5	No Detections	-	-	-	-	-
TW-6	Diesel Range Organics	310	NA	NA	1000	ug/L
TW-7	Tetrachloroethene	**7.2**	5	5	NA	ug/L
TW-8	No Detections	-	-	-	-	-
TW-9	No Detections	-	-	-	-	-
TW-10	Tetrachloroethene	**7.2**	5	5	NA	ug/L
TW-11	Diesel Range Organics	760	NA	NA	1000	ug/L
TW-12	No Detections	-	-	-	-	-
TW-13	No Detections	-	-	-	-	-
TW-14	No Detections	-	-	-	-	-
TW-15	Benzene	**5.9**	5	5	NA	ug/L
	Cyclohexane	3.6	1300	13000	NA	ug/L
	Ethylbenzene	2.2	700	700	NA	ug/L
	Isopropylbenzene	3.2	45	450	NA	ug/L

Sample No.	Detected Constituent	Detected Concentration	VRP Tier II Screening Level (2)	EPA Region III RSL (3)	VDEQ Reporting Level (4)	Units
	Methyl tertiary butyl ether	1.7	140	14	NA	ug/L
	Methylcyclohexane	2.8	NA	NA	NA	ug/L
	Toluene	9	1000	1000	NA	ug/L
	Gasoline Range Organics	500	NA	NA	1000	ug/L
	Diesel Range Organics	300	NA	NA	1000	ug/L
TW-16	Diesel Range Organics	170	NA	NA	1000	ug/L
TW-17	No Detections	-	-	-	-	-

Notes:

(1) Groundwater Samples collected January 27, 29 and 30; February 3 and March 10, 2020.
(2) VRP Tier II Screening Levels - Residential Table 2.0 dated June 2019
(3) EPA Tapwater or Maximum Contaminant Level (MCL), as applicable, Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2019
(4) VDEQ Reporting Level Storage Tank Program Technical Manual Fourth Edition May 2011
NA – Not Applicable

4.4 QUALITY CONTROL ANALYTICAL RESULTS AND DATA VALIDATION

Laboratory QA/QC involves the routine collection and analysis of method reagent blanks, matrix spike and matrix spike duplicate (MS/MSD) samples, and laboratory control samples (LCS). A brief summary of each of these is presented below:

- Method Reagent Blank – The method reagent blank is deionized water subjected to the same reagents and manipulations to which site samples are subjected. Positive results in the method reagent blank may indicate either contamination of the chemical reagents or the glassware and implements used to store or prepare the sample and resulting solutions.

- Matrix Spike/Matrix Spike Duplicate – A matrix spike is an aliquot of a field sample with a known concentration of target parameter added to it. A matrix spike duplicate is an intra-laboratory split sample spiked with a known concentration of target parameter. Spiking for each occurs prior to sample analysis. MS/MSD samples are collected for every batch of twenty or fewer samples. Matrix spike recoveries are used to indicate what effect the sample matrix may have on the reported concentration and/or the performance of the sample preparation and analysis.

- Laboratory Control Samples – These samples generally consist of deionized water injected with the parameters of interest for single parameter methods and selected parameters for multi-parameter methods according to the appropriate analytical method. LCS are prepared and analyzed for each batch containing twenty or fewer samples. LCS recoveries are used to monitor analytical accuracy.

There were MSD recoveries outside control limits for the soil matrix, which the laboratory suspected were due to sample non-homogeneity since the LCS was within limits. Continuing calibration verifications (CCV) were also outside control limits for pyrene; however, pyrene as not detected in the associated samples. Soil samples collected from B-6 and B-7 were diluted due to color and odor, which resulted in elevated laboratory reporting limits for TPH, which was detected in both samples. The soil sample from TW-17 (B-17) was diluted for the VOC analysis to meet the base dilution for the methanol preservation method.

There were LCS and CCV recoveries outside control limits for the aqueous matrix for specific analytes; however, these analytes were not detected in the associated samples.

Field and laboratory QA/QC also involved the collection and analysis of a duplicate field groundwater sample. Duplicates are two separate samples collected independently in such a manner that they equally represent the medium at a given time and location. Co-located samples provide intra-laboratory precision information for the entire measurement system, including sample collection, homogeneity, handling, shipping, storage, preparation, and analysis. TPH-DRO was detected in the method blank during the first extraction and re-extracted for a second analysis and did not exhibit TPH-DRO. **Table 4** summarizes the parameter detection from the method blank extraction and re-extraction. The re-extraction was performed outside the holding time; however, based on the lack of detection in the groundwater sample, this is not a concern.

Table 4. Quality Control Detects Summary

Blank ID	Parameter	Concentration (ug/L)	RL (ug/L)
Method Blank	Diesel Range Organics (DRO)	832	130
Method Blank-RE	Diesel Range Organics (DRO)	<130 H	130

RE – RE-Extraction
RL = Reporting Limit
ug/L = micrograms per liter

Relative Percent Difference (RPD) of less than 20% is desirable when comparing the duplicate to the original sample. There were no detections above the laboratory reporting limit and therefore a comparison cannot be made.

To identify analytical data that may not represent valid results, data from the soil and groundwater monitoring events were validated by the laboratory and SCS in accordance with EPA guidance. Samples with parameter detections less than five times that of the blank detections, but greater than the laboratory's Limit of Detection (LOD) are flagged with a "B" qualifier. Samples with common lab contaminant parameter detections less than 10 times that of blank detection, but greater than the laboratory's LOD are flagged with a "B" qualifier. B qualified detections are considered not validated as the detection may be anomalous to due to sampling, laboratory, or transportation errors. TPH DRO was detected in the method blank and in the associated groundwater sample and flagged with a "B". However, upon re-extraction there was no TPH DRO detection in the method blank or the groundwater sample. The laboratory indicated that the original method blank detection is likely the result of laboratory glassware contamination.

5 CONCLUSIONS

Soil: The soil samples (where analyzed for lead) with the exception of soil samples collected from B-3 and B-4, exhibited some detections of lead, although not at concentrations above applicable screening or reporting levels. This supports a conclusion that detected concentrations are primarily indicative of naturally occurring background concentrations. The detected lead concentrations range from 2.8 to 290 mg/Kg, which is below the EPA's Residential RSL of 400 mg/Kg.

PCE was detected in soil samples collected from B-9 and B-10 (near the former drycleaners), at concentrations above the EPA's Risk-Based Screening Level, but below the VRP Tier II and EPA Residential and Industrial RSLs. The detected concentrations were 0.0081 mg/Kg (B-10) and 0.013 mg/Kg (B-9), which are slightly above the EPA's Risk-Based Screening Level of 0.0051 mg/Kg.

Mercury was detected in soil samples collected from five boring locations (B-5, B-6, B-7, B-8, and B-12) at concentrations above the EPA's Risk-Based Screening Level, but below the VRP Tier II and EPA Residential and Industrial RSLs. The detected concentrations ranged from 0.034 mg/Kg (B-7) to 0.062 mg/Kg (B-12), which are slightly above the EPA's Risk-Based RSL of 0.033 mg/Kg

TPH was detected in each of the soil samples, with the exception of B-1 (fire station), B-13 and B-17. TPH DRO and TPH GRO were detected in soil samples, but not above the VDEQ reporting level of 100 mg/Kg. The TPH ORO concentration at B-6 exceeded the VDEQ reporting level at a concentration of 320 mg/Kg, however, based on the location of the sample (background and not associated with a tank location), the VDEQ was not notified.

The relatively high PID reading on the soil samples from boring B-15 appears to be anomalous since results of chemical analysis of the sample from this boring did not indicate exceedances of applicable screening or action levels. Although, B-15 is located adjacent to an active service station.

Groundwater: Concentrations of the VOCs naphthalene, tetrachloroethene, and benzene exceeded VRP Tier II Screening Levels in groundwater samples collected from TW-3 (former automobile repair), TW-7, TW-10 (former drycleaners) and TW-15 (active service station). The remaining detectable concentrations of VOCs did not exceed applicable screening levels or reporting levels.

TPH DRO and GRO were detected above laboratory reporting limits in groundwater samples collected from temporary groundwater monitoring wells TW-1 (fire station), TW-2, TW-3, TW-4 (former automobile repair station), TW-6, TW-11, TW-15, and TW-16 (active service station). None of the detected concentrations exceeded applicable screening or reporting levels.

Analysis of relative groundwater levels obtained before sampling each temporary groundwater monitoring well indicated that shallow groundwater flow is toward the south/southwest (see **Figure 4** in **Appendix A**).

6 REFERENCES

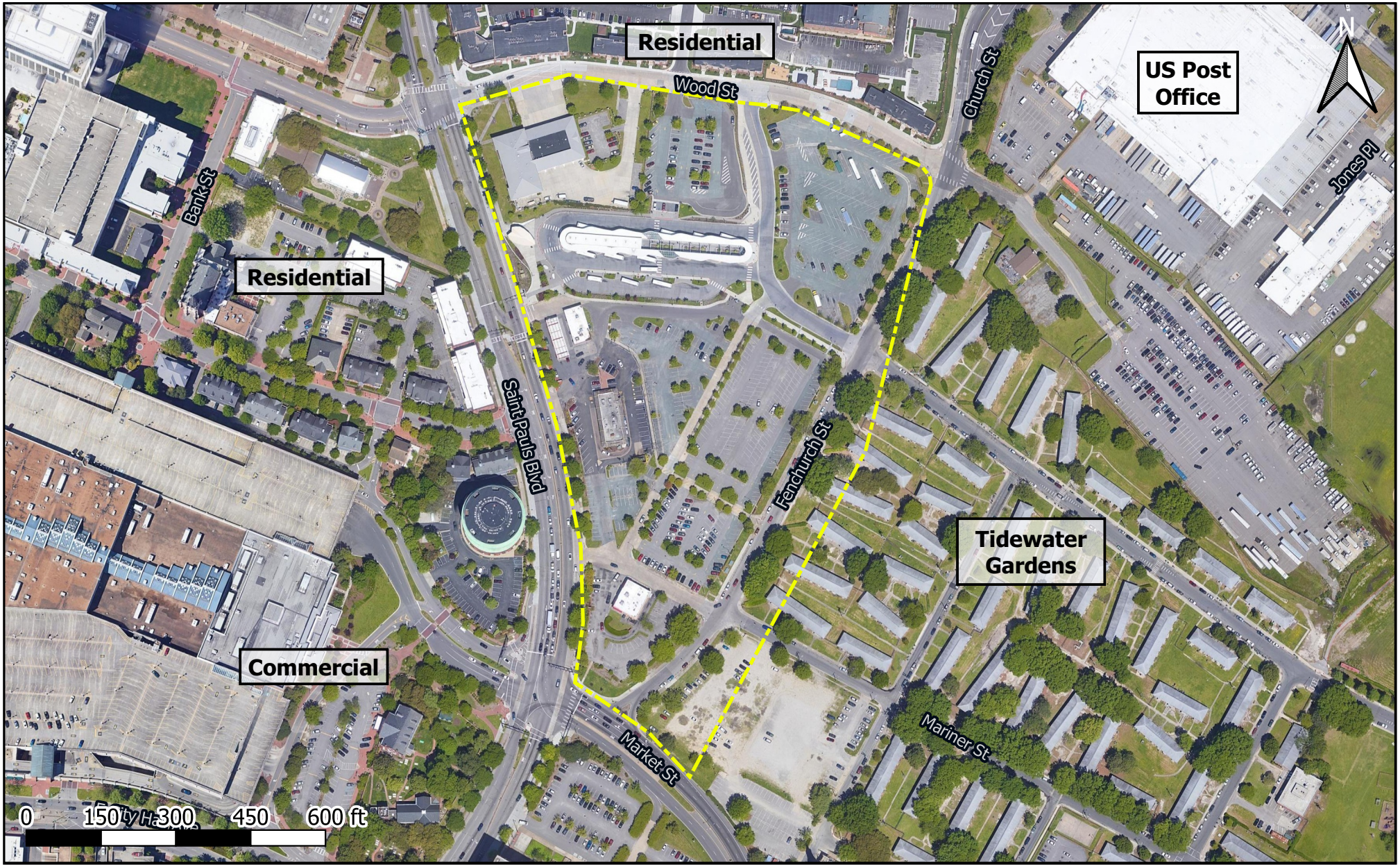
ASTM International. 2013. *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E1527-13)*. ASTM International, West Conshohocken, Pennsylvania.

ASTM International. 2011. *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process (E1903-11)*. ASTM International, West Conshohocken, Pennsylvania.

ASTM E1527-13 Phase I Environmental Site Assessment St. Pauls Boulevard Transit Site, Norfolk, Virginia 23504, by SCS Engineers dated May 6, 2019.

USGS Topographic Map, Norfolk South, VA, 2013

APPENDIX A - FIGURES

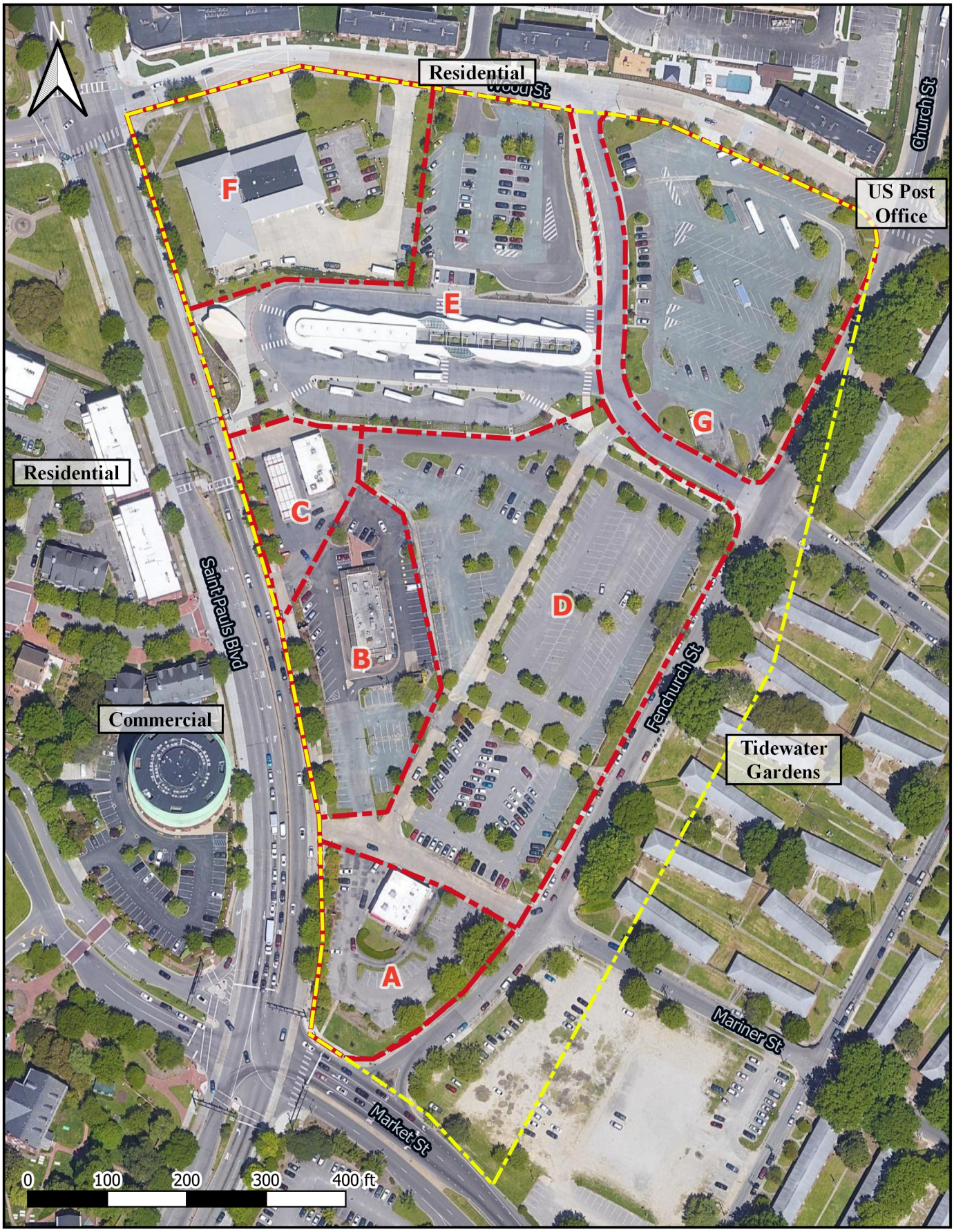


Subject Site

Source: Google Satellite Imagery (2018)

Figure 1. Site Location Map
St. Pauls Transit Site
SCS File No. 02218113.09

SCS ENGINEERS



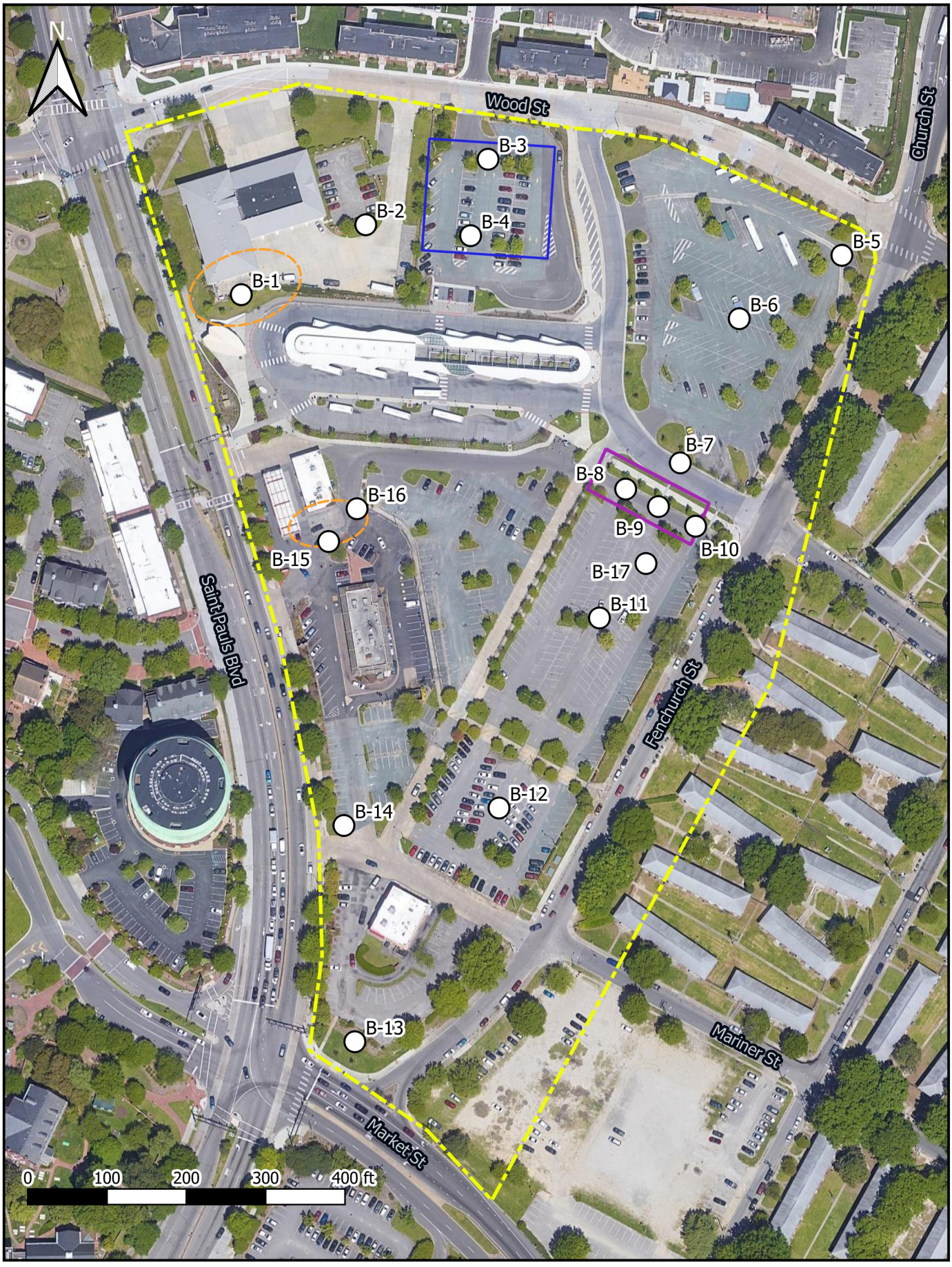
Subject Site

Section Boundaries

A. Popeye's
B. McDonalds
C. Shell Gas Station
D. St. Pauls Parking Lot #42
E. HRT Bus Terminal & Employee Parking
F. Norfolk Fire Station No. 1
G. Parking Lot for Buses

Source: Google Satellite Imagery (2018)

Figure 2. Site Features Map
St. Pauls Transit Site
SCS File No. 02218113.09



Subject Site

Boring Location

Current USTs

Former Auto Maintenance/Repair

Former Dry Cleaners

Source: Google Satellite Imagery (2018)

Figure 3. Soil Boring Location Map
St. Pauls Transit Site
SCS File No. 02218113.09

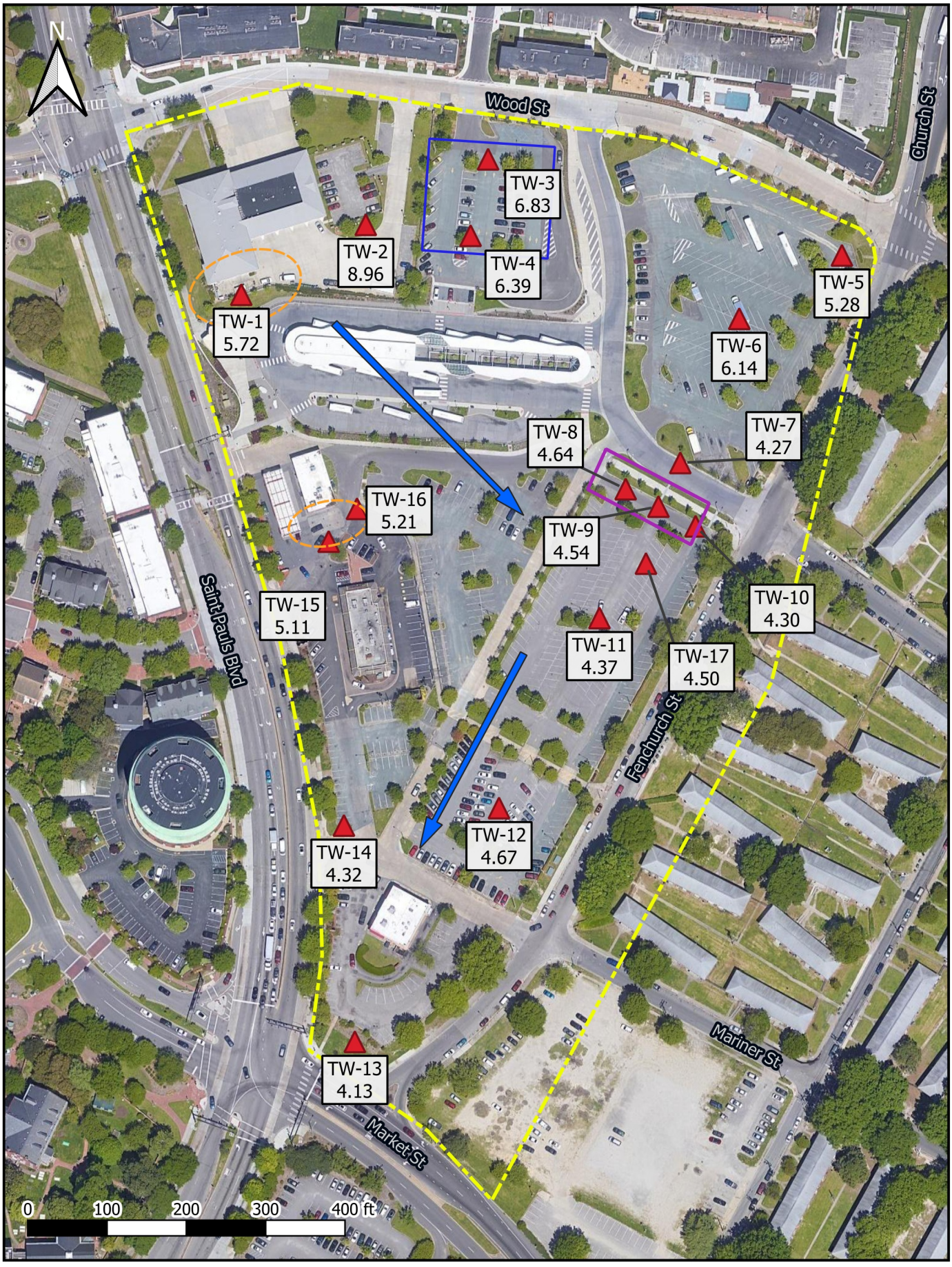


Figure 4. Temporary Groundwater Well Location Map

St. Pauls Transit Site
SCS File No. 02218113.09

Subject Site

General Direction of Groundwater Flow

Temporary Well Locations

4.13 Relative Groundwater Elevation

Source: Google Satellite Imagery (2018)

APPENDIX B – SOIL BORING LOGS

Soil Boring: B-1

Project: St. Paul's Transit	**Project No.:** 02218113.09
Date: 1/21/2020	**Location:** Norfolk, VA
Driller: Fishburne	**Elevation:** N/A

DEPTHS Depth (feet)	SOIL DESCRIPTION	NOTES
0-1	Sand, brown gray, medium grained, well sorted, trace clay, dry	Background PID = 0.1 ppm 0.1 ppm
1-2	Sandy clay with clay increasing with depth, tan with orange streaks, high plasticity, dry	0.1 ppm
2-3	As Above	
3-4	As Above	
4-5	As Above	
5-6	Sand, tan, medium grained, trace clay, dry	0.2 ppm
6-7	As Above	0.2 ppm
7-8	Clayey sand, brown/orange, well sorted, wet	Water Table at 7.2'
8-9	Sand, tan/orange with mottled orange, large grained, well sorted, trace clay, wet	
9-10	As Above	
10-11	As Above	
11-12	As Above	Bottom of boring at 11.5'

Notes: Collected samples B-1-1 (0-2') and B-1-2 (5-7')

Soil Boring: B-2

Project: St. Paul's Transit	**Project No.:** 02218113.09
Date: 1/22/2020	**Location:** Norfolk, VA
Driller: Fishburne	**Elevation:** N/A

DEPTHS Depth (feet)	**SOIL DESCRIPTION**	**NOTES**
0-1	Sandy clay, brown, fill material, dry	Background PID = 0.0 ppm 0.2 ppm
1-2	Sandy clay, gray/brown, friable, dry	0.2 ppm
2-3	As Above	0.0 ppm
3-4	Clay, tan, high plasticity, little sand, dry	0.0 ppm
4-5	No Return	
5-6	Clay, gray/tan, trace sand increasing with depth, organics	Water Table at 5.9'
6-7	Sand, tan, medium to coarse grained, well sorted, trace clay, wet	
7-8	As Above	
8-9	Sand, brown, coarse grained, trace clay, wet	
9-10	As Above	
10-11	Sand, orange, coarse grained, trace clay, wet	
11-12	As Above	Bottom of boring at 12'

Notes: Collected samples B-2-1 (0-2') and B-2-2 (4-5')

Soil Boring: B-3

Project: St. Paul's Transit	**Project No.:** 02218113.09
Date: 1/21/2020	**Location:** Norfolk, VA
Driller: Fishburne	**Elevation:** N/A

DEPTHS Depth (feet)	**SOIL DESCRIPTION**	**NOTES**
0-1	Sand, dark gray and tan, medium grained, trace clay, dry	Background PID = 0.1 ppm 0.1 ppm
1-2	Clay, tan with mottled orange, high plasticity, some sand, dry	0.1 ppm
2-3	As Above	0.2 ppm
3-4	As Above	0.2 ppm
4-5	No Return	0.2 ppm
5-6	Clay, tan with mottled orange, high plasticity, some sand, dry	Water Table at 5.8'
6-7	Sand, gray with mottled orange, medium grained, well sorted, trace clay, wet	
7-8	As Above	
8-9	Sand, tan, coarse grained, trace clay, wet	
9-10	Sand, gray with mottled orange, coarse grained, well sorted, trace clay, wet	Bottom of boring at 10'
10-11		
11-12		

Notes: Collected samples B-3-1 (0-2') and B-3-2 (5-6')

Soil Boring: B-4

Project: St. Paul's Transit	**Project No.:** 02218113.09
Date: 1/21/2020	**Location:** Norfolk, VA
Driller: Fishburne	**Elevation:** N/A

DEPTHS Depth (feet)	SOIL DESCRIPTION	NOTES
0-1	Sand, dark brown/tan, plant roots, trace clay, dry	Background PID = 0.0 ppm 0.0 ppm
1-2	As Above, 1" gravel lens at 1.8'	0.0 ppm
2-3	Sandy clay, gray/tan, high plasticity, dry	0.0 ppm
3-4	As Above	0.0 ppm
4-5	No Return	
5-6	Sand, brown/tan, medium to coarse grained, trace clay, dry	0.6 ppm
6-7	Sand, light brown/orange, coarse grained, well sorted, wet	Water Table at 6.8'
7-8	As Above	
8-9	No Return	
9-10	Sand, light brown, coarse grained, well sorted, trace clay, wet	
10-11	As Above	
11-12	Sand, orange, coarse grained, trace clay, wet	Bottom of boring at 11.5'

Notes: Collected samples B-4-1 (0-2') and B-4-2 (5-6')

Soil Boring: B-5

Project: St. Paul's Transit	**Project No.:** 02218113.09
Date: 1/21/2020	**Location:** Norfolk, VA
Driller: Fishburne	**Elevation:** N/A

DEPTHS Depth (feet)	SOIL DESCRIPTION	NOTES
0-1	Sand, dark gray, medium grained, organics (roots), trace clay, dry	Background PID = 0.3 ppm 21.6 ppm
1-2	As Above	21.6 ppm
2-3	Sandy clay, gray/tan, dry	21.6 ppm
3-4	Sand, tan, medium grained, well sorted, trace clay, dry	0.6 ppm
4-5	No Return	
5-6	Sand, tan/orange, medium grained, well sorted, trace clay, wet	Water Table at 5' 0.4 ppm
6-7	Sand, tan and orange, medium to coarse grained, trace heavy minerals, trace clay, wet	
7-8	As Above	
8-9	As Above	
9-10	As Above	
10-11	As Above	
11-12	Sand, orange, coarse grained, well sorted, trace clay, wet	Bottom of boring at 12'

Notes: Collected samples B-5-1 (0-3') and B-5-2 (3-4')

Soil Boring: B-6

Project: St. Paul's Transit	**Project No.:** 02218113.09
Date: 1/21/2020	**Location:** Norfolk, VA
Driller: Fishburne	**Elevation:** N/A

DEPTHS Depth (feet)	SOIL DESCRIPTION	NOTES
0-1	No Return	Background PID = 0.1 ppm
1-2	No Return	
2-3	Sand, dark brown, fine to medium grained, dry	0.5 ppm
3-4	Sandy clay, tan and orange, high plasticity, organics, trace shell, dry	0.2 ppm
4-5	No Return	
5-6	Clayey sand, gray/tan, medium grained, well sorted, wet	Water Table at 5'
6-7	Sand, tan and orange, coarse grained, trace clay increasing with depth, wet	
7-8	As Above	
8-9	As Above	
9-10	Sand, orange, medium to coarse grained, trace clay, trace heavy minerals, wet	Bottom of boring at 10'
10-11		
11-12		

Notes: Collected samples B-6-1 (0-3') and B-6-2 (3-5')

Soil Boring: B-7

Project: St. Paul's Transit	**Project No.:** 02218113.09
Date: 1/21/2020	**Location:** Norfolk, VA
Driller: Fishburne	**Elevation:** N/A

DEPTHS Depth (feet)	SOIL DESCRIPTION	NOTES
0-1	Sand, dark brown, organics, fine grained, dry	Background PID = 0.1 ppm 0.2 ppm
1-2	Sand, dark brown and gray, orangics, fine grained, gravel lens (fill) with sand, dry	0.2ppm
2-3	Sand, gray and orange, medium grained, trace clay, dry	0.2 ppm
3-4	As Above	0.4 ppm
4-5	No Return (4-4.5') Sand, gray, medium grained, trace clay, wet	Water Table at 4'
5-6	Sand, tan and orange, medium grained, trace clay, wet	
6-7	As Above	
7-8	As Above	
8-9	Sand, gray, medium to coarse grained, coarser with depth, wet	
9-10	Sand, orange, coarse grained, trace clay, wet	
10-11	As Above	
11-12	As Above	Bottom of boring at 12'

Notes: Collected samples B-7-1 (0-2') and B-7-2 (3-4')

Soil Boring: B-8

Project: St. Paul's Transit	**Project No.:** 02218113.09
Date: 1/21/2020	**Location:** Norfolk, VA
Driller: Fishburne	**Elevation:** N/A

DEPTHS Depth (feet)	**SOIL DESCRIPTION**	**NOTES**
0-1	Sand, brown, gravel fill material, trace clay, dry	Background PID = 0.1 ppm 14.8 ppm
1-2	As Above	14.8 ppm
2-3	Sandy clay, gray and orange, high plasticity, sand increasing with depth, organics, dry	138 ppm
3-4	No Return	
4-5	No Return	
5-6	Sand, brown, medium grained, trace clay	Water Table at 5' 109.8 ppm
6-7	Sand, tan, medium to coarse grained, well sorted, wet	
7-8	Sand, orange, coarse grained, trace clay, trace heavy minerals, wet	
8-9	As Above	
9-10	As Above	
10-11	As Above	
11-12	As Above	Bottom of boring at 12'

Notes: Collected samples B-8-1 (2-3') and B-8-2 (5-6')

Soil Boring: B-9

Project: St. Paul's Transit	**Project No.:** 02218113.09
Date: 1/21/2020	**Location:** Norfolk, VA
Driller: Fishburne	**Elevation:** N/A

DEPTHS Depth (feet)	SOIL DESCRIPTION	NOTES
0-1	Sand, dark gray, fill material, organics, trace clay, dry	Background PID = 0.0 ppm 235 ppm
1-2	Clayey sand, tan/gray, medium grained, dry	128 ppm
2-3	As Above	128 ppm
3-4	No Return	
4-5	Clayey sand, tan/gray, medium grained, organics, dry	119 ppm
5-6	Sand, light gray going brown with depth, medium grained, wet	Water Table at 5.5'
6-7	As Above	
7-8	No Return	
8-9	Sand, tan, medium to coarse grained, trace clay, wet	
9-10	As Above	
10-11	As Above	
11-12	Sand, orange, coarse grained, trace clay, wet	Bottom of boring at 12'

Notes: Collected samples B-9-1 (0-3') and B-9-2 (4-5')

Soil Boring: B-10

Project: St. Paul's Transit	**Project No.:** 02218113.09
Date: 1/21/2020	**Location:** Norfolk, VA
Driller: Fishburne	**Elevation:** N/A

DEPTHS Depth (feet)	SOIL DESCRIPTION	NOTES
0-1	Clayey sand, dark brown/gray, medium grained, dry	Background PID = 0.0 ppm 0.1 ppm
1-2	As Above	0.1 ppm
2-3	As Above, abundant fill material 3-3.2'	0.1 ppm
3-4	Sand, brown, medium grained, trace organics, trace clay, dry	0.2 ppm
4-5	As Above	0.2 ppm
5-6	No Return 4.5-6.5	Water Table at 5' 10"
6-7	No Return 4.5-6.5	
7-8	Sand, brown and gray, medium grained, trace clay, trace heavy minerals, wet	
8-9	Sand, brown, medium to coarse grained, trace clay, wet	
9-10	As Above	
10-11	Sand, light orange, coarse grained, trace clay, wet	
11-12	As Above	Bottom of boring at 12'

Notes: Collected samples B-10-1 (0-3') and B-10-2 (4-4.5')

Soil Boring: B-11

Project: St. Paul's Transit	**Project No.:** 02218113.09
Date: 1/22/2020	**Location:** Norfolk, VA
Driller: Fishburne	**Elevation:** N/A

DEPTHS Depth (feet)	SOIL DESCRIPTION	NOTES
0-1	No Return	Background PID = 0.0 ppm 0.0 ppm
1-2	Sandy clay, dark brown, organics, dry	
2-3	Sandy clay, tan, iron staining, dry	
3-4	Sand, tan, medium grained, trace clay, dry	
4-5	No Return	
5-6	No Return	Water Table at 5' 4"
6-7	Sand, tan, medium to coarse grained, trace clay, trace organics, wet	
7-8	Sand, tan, medium to coarse grained, trace clay increasing with depth, wet	
8-9	Sand, brown/orange, coarse grained, trace clay, wet	
9-10	As Above	Bottom of boring at 10'
10-11		
11-12		

Notes: No PID detections. Collected samples B-11-1 (0-2') and B-11-2 (4-5')

Soil Boring: B-12

Project: St. Paul's Transit	**Project No.:** 02218113.09
Date: 1/22/2020	**Location:** Norfolk, VA
Driller: Fishburne	**Elevation:** N/A

DEPTHS Depth (feet)	SOIL DESCRIPTION	NOTES
0-1	Asphalt (0-0.3) Clayey sand, gray, fill material, coarse grained, dry (0.3-0.5)	Background PID = 0.0 ppm 0.0 ppm
1-2	Sandy clay, tan/orange, high plasticity, dry	
2-3	As Above	
3-4	Sand, light gray, medium grained, well sorted, dry	
4-5	No Return	
5-6	Sand, brown, medium grained, well sorted, trace clay, dry	
6-7	Sandy clay, tan, high plasticity, dry	Water Table at 6' 11"
7-8	Sand, light brown to brown, medium grained, coarser with depth, trace heavy minerals, wet towards bottom	
8-9	Sand, light brown/orange, coarse grained, well sorted, trace clay, wet	
9-10	As Above	
10-11	As Above	Bottom of boring at 11'
11-12		

Notes: No PID detections. Collected samples B-12-1 (0-2') and B-12-2 (5-6')

Soil Boring: B-13

Project: St. Paul's Transit	**Project No.:** 02218113.09
Date: 1/22/2020	**Location:** Norfolk, VA
Driller: Fishburne	**Elevation:** N/A

DEPTHS Depth (feet)	SOIL DESCRIPTION	NOTES
0-1	Sand, dark gray brown, fill material, medium grained, some clay, dry	Background PID = 0.0 ppm 0.0 ppm
1-2	As Above	
2-3	Sandy clay, tan, high plasticity, trace organics, dry	
3-4	Sand, tan, medium grained, trace clay, dry	
4-5	No Return	
5-6	Sand, tan, medium grained, organic lens at 5.5', trace clay, dry	
6-7	As Above	
7-8	As Above	Water Table at 7' 10"
8-9	No Return	
9-10	Sand, orange/brown, medium grained, trace clay, wet	
10-11	As Above	
11-12	Clayey sand, light brown orange, coarse grained, wet	Bottom of boring at 12'

Notes: No PID detections. Collected samples B-13-1 (0-2') and B-13-2 (5-7')

Soil Boring: B-14

Project: St. Paul's Transit	**Project No.:** 02218113.09
Date: 1/22/2020	**Location:** Norfolk, VA
Driller: Fishburne	**Elevation:** N/A

DEPTHS Depth (feet)	SOIL DESCRIPTION	NOTES
0-1	Sandy clay, dark brown, medium grained, organics and fill material, dry	Background PID = 0.0 ppm 0.0 ppm
1-2	As Above	
2-3	Gravel, gray/tan, fill material, dry	
3-4	Clay, tan/brown, high plasticity, little sand, fill material at 3-3.2, dry	
4-5	No Return (4-4.5) Sandy clay, tan, high plasticity, dry	
5-6	Clayey sand, dark brown, high organics, fine to medium grained (5-5.5) Sandy clay, tan, dry (5.5-6)	
6-7	Sandy, light gray and tan, medium grained, well sorted, trace clay increasing with depth	
7-8	No Return	
8-9	Sand, light brown, medium to coarse grained, trace clay, trace heavy minerals, wet	Water Table at 8'
9-10	As Above	
10-11	Sand, banded tan and orange, coarse grained, light clay, wet	
11-12	As Above	Bottom of boring at 12'

Notes: No PID detections. Collected samples B-14-1 (0-2') and B-14-2 (6-8')

Soil Boring: B-15

Project: St. Paul's Transit	**Project No.:** 02218113.09
Date: 1/22/2020	**Location:** Norfolk, VA
Driller: Fishburne	**Elevation:** N/A

DEPTHS Depth (feet)	SOIL DESCRIPTION	NOTES
0-1	Asphalt	Background PID = 0.0 ppm 415 ppm
1-2	Clayey sand, dark gray, medium grained, strong petroleum odor	415 ppm
2-3	As Above	5 ppm
3-4	Clayey sand, gray green, medium grained, strong petroleum odor	38 ppm
4-5	No Return	
5-6	As Above	60 ppm
6-7	Sand, dark gray, medium to coarse grained, trace clay, strong odor	220 ppm
7-8	As Above	Water Table at 7' 3,520 ppm
8-9	Sand, dark gray, coarse grained, trace clay, strong petroleum odor	
9-10	As Above	
10-11	Sand, gray, medium to corase grained, trace clay	
11-12	As Above	Bottom of boring at 12'

Notes: Collected samples B-15-1 (0-2') and B-15-2 (6-7')

Soil Boring: B-16

Project: St. Paul's Transit	**Project No.:** 02218113.09
Date: 1/22/2020	**Location:** Norfolk, VA
Driller: Fishburne	**Elevation:** N/A

DEPTHS Depth (feet)	SOIL DESCRIPTION	NOTES
0-1	Asphalt (0-0.3) No Return	Background PID = 0.0 ppm 0.1 ppm
1-2	Sandy clay, tan, high plasticity, dry	0.1 ppm
2-3	Same as Above	0.0 ppm
3-4	Sand, tan, medium grained, trace clay, dry	0.0 ppm
4-5	No Return	
5-6	Sand, tan with some orange, medium to coarse grained, trace clay	Water Table at 5' 4" 0.0 ppm
6-7	Sand, gray, medium to coarse grained, trace clay, wet	
7-8	Sand, orange/brown, medium to coarse grained, trace clay, wet	
8-9	Same as Above	
9-10	Sand, orange, medium to coarse grained, trace clay, wet	Bottom of boring at 10'
10-11		
11-12		

Notes: Collected samples B-16-1 (0-2') and B-16-2 (3-5')

Soil Boring: B-17

Project: St. Paul's Transit	**Project No.:** 02218113.09
Date: 3/9/2020	**Location:** Norfolk, VA
Driller: Fishburne	**Elevation:** N/A

DEPTHS Depth (feet)	SOIL DESCRIPTION	NOTES
0-1	Asphalt (0-0.25') Sand, coarse, gray (0.25-0.5') Sand, fine, tan (0.5-4')	
1-2	As Above	
2-3	As Above	
3-4	As Above	0.0 ppm (0-4')
4-5	Sand, fine, tan	
5-6	As Above	
6-7	As Above	
7-8	As Above	Water Table at 7.5' 0.0 ppm (4-8')
8-9	Sand, fine, tan	
9-10	As Above	
10-11	As Above	
11-12	As Above	Bottom of boring at 12'

Notes: No PID detections. Collected sample B-17 (4-8')

APPENDIX C - LABORATORY REPORTS

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-182916-1
Client Project/Site: St Paul Phase II

For:
SCS Engineers
2877 Guardian Lane
Suite 1-F
Virginia Beach, Virginia 23452

Attn: Alexis Holcomb

Mark Swafford

Authorized for release by:
2/6/2020 10:38:18 AM

Mark Swafford, Project Manager II
(850)471-6207
mark.swafford@testamericainc.com

Table of Contents

Definitions/Glossary

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

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

Job ID: 400-182916-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-182916-1

Comments
No additional comments.

Receipt
The samples were received on 1/23/2020 9:21 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.1° C and 3.1° C.

GC/MS VOA
Method 8260B: The matrix spike duplicate (MSD) recoveries for preparation batch 400-475647 and analytical batch 400-475624 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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 continuing calibration verification (CCV) associated with batch 400-476105 recovered outside acceptance criteria, low biased, for Pyrene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

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

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

GC Semi VOA
Method 8015C: The following samples were diluted due to color and odor: B-6 (400-182916-3) and B-7 (400-182916-4). Elevated reporting limits (RL) are provided.

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

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

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

Detection Summary

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-1 — Lab Sample ID: 400-182916-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.1		1.0		mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-5 — Lab Sample ID: 400-182916-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	23		5.7		mg/Kg	1	☼	8015C	Total/NA
Lead	12		1.1		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.041		0.018		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-6 — Lab Sample ID: 400-182916-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oil Range Organics (C28-C35)	320		100		mg/Kg	20	☼	8015C	Total/NA
Lead	19		1.0		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.047		0.015		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-7 — Lab Sample ID: 400-182916-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oil Range Organics (C28-C35)	32		11		mg/Kg	2	☼	8015C	Total/NA
Lead	10		1.0		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.034		0.017		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-8 — Lab Sample ID: 400-182916-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C6-C10	0.13		0.11		mg/Kg	1	☼	8015C	Total/NA
Diesel Range Organics [C10-C28]	7.7		5.5		mg/Kg	1	☼	8015C	Total/NA
Oil Range Organics (C28-C35)	7.1		5.5		mg/Kg	1	☼	8015C	Total/NA
Lead	6.7		1.1		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.038		0.017		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-9 — Lab Sample ID: 400-182916-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.013		0.0052		mg/Kg	1	☼	8260B	Total/NA
Diesel Range Organics [C10-C28]	15		5.6		mg/Kg	1	☼	8015C	Total/NA
Oil Range Organics (C28-C35)	19		5.6		mg/Kg	1	☼	8015C	Total/NA
Lead	5.7		1.1		mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-10 — Lab Sample ID: 400-182916-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.0081		0.0050		mg/Kg	1	☼	8260B	Total/NA
Diesel Range Organics [C10-C28]	24		5.3		mg/Kg	1	☼	8015C	Total/NA
Oil Range Organics (C28-C35)	22		5.3		mg/Kg	1	☼	8015C	Total/NA
Lead	3.2		0.98		mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-11 — Lab Sample ID: 400-182916-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	9.9		5.5		mg/Kg	1	☼	8015C	Total/NA
Oil Range Organics (C28-C35)	22		5.5		mg/Kg	1	☼	8015C	Total/NA
Lead	9.2		1.1		mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Client Sample ID: B-11 (Continued) — Lab Sample ID: 400-182916-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.026		0.018		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-12 — Lab Sample ID: 400-182916-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	7.9		5.4		mg/Kg	1	☼	8015C	Total/NA
Oil Range Organics (C28-C35)	18		5.4		mg/Kg	1	☼	8015C	Total/NA
Lead	4.1		1.1		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.062		0.015		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-13 — Lab Sample ID: 400-182916-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.4		1.1		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.022		0.017		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-14 — Lab Sample ID: 400-182916-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	50		6.0		mg/Kg	1	☼	8015C	Total/NA
Oil Range Organics (C28-C35)	77		6.0		mg/Kg	1	☼	8015C	Total/NA
Lead	290		1.2		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.35		0.018		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-15 — Lab Sample ID: 400-182916-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.091		0.030		mg/Kg	1	☼	8260B	Total/NA
Diesel Range Organics [C10-C28]	6.0		5.6		mg/Kg	1	☼	8015C	Total/NA
Lead	2.8		1.1		mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-16 — Lab Sample ID: 400-182916-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	26		5.2		mg/Kg	1	☼	8015C	Total/NA
Oil Range Organics (C28-C35)	50		5.2		mg/Kg	1	☼	8015C	Total/NA
Lead	8.3		0.95		mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-2 — Lab Sample ID: 400-182916-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C6-C10	0.48		0.12		mg/Kg	1	☼	8015C	Total/NA
Lead	93		1.1		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.26		0.018		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-3 — Lab Sample ID: 400-182916-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	17		5.4		mg/Kg	1	☼	8015C	Total/NA
Oil Range Organics (C28-C35)	42		5.4		mg/Kg	1	☼	8015C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-4

Lab Sample ID: 400-182916-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	18		5.4		mg/Kg	1	☼	8015C	Total/NA
Oil Range Organics (C28-C35)	40		5.4		mg/Kg	1	☼	8015C	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-182916-1	B-1	Solid	01/21/20 09:00	01/23/20 09:21	
400-182916-2	B-5	Solid	01/21/20 12:20	01/23/20 09:21	
400-182916-3	B-6	Solid	01/21/20 13:30	01/23/20 09:21	
400-182916-4	B-7	Solid	01/21/20 14:40	01/23/20 09:21	
400-182916-5	B-8	Solid	01/21/20 15:20	01/23/20 09:21	
400-182916-6	B-9	Solid	01/21/20 15:30	01/23/20 09:21	
400-182916-7	B-10	Solid	01/21/20 14:43	01/23/20 09:21	
400-182916-8	B-11	Solid	01/22/20 11:45	01/23/20 09:21	
400-182916-9	B-12	Solid	01/22/20 11:00	01/23/20 09:21	
400-182916-10	B-13	Solid	01/22/20 09:05	01/23/20 09:21	
400-182916-11	B-14	Solid	01/22/20 10:00	01/23/20 09:21	
400-182916-12	B-15	Solid	01/22/20 13:30	01/23/20 09:21	
400-182916-13	B-16	Solid	01/22/20 12:30	01/23/20 09:21	
400-182916-14	B-2	Solid	01/22/20 15:20	01/23/20 09:21	
400-182916-15	B-3	Solid	01/21/20 10:00	01/23/20 09:21	
400-182916-16	B-4	Solid	01/21/20 11:00	01/23/20 09:21	

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-1
Date Collected: 01/21/20 09:00
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-1
Matrix: Solid
Percent Solids: 89.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
1,1,2-Trichloroethane	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
1,1-Dichloroethane	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
1,1-Dichloroethene	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
1,2,3-Trichlorobenzene	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
1,2,4-Trichlorobenzene	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
1,2-Dibromo-3-Chloropropane	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
1,2-Dichlorobenzene	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
1,2-Dichloroethane	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
1,2-Dichloropropane	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
1,3-Dichlorobenzene	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
1,4-Dichlorobenzene	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
2-Hexanone	<0.025		0.025		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Acetone	<0.025		0.025		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Benzene	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Bromodichloromethane	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Bromoform	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Bromomethane	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Carbon disulfide	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Carbon tetrachloride	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Chlorobenzene	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Chlorobromomethane	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Chloroethane	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Chloroform	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Chloromethane	<0.0051	F1	0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
cis-1,2-Dichloroethene	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
cis-1,3-Dichloropropene	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Dibromochloromethane	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Dichlorodifluoromethane	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Ethylbenzene	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Ethylene Dibromide	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Isopropylbenzene	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Methyl acetate	<0.0051	F1	0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Methyl Ethyl Ketone	<0.025		0.025		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
methyl isobutyl ketone	<0.025		0.025		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Methyl tert-butyl ether	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Methylene Chloride	<0.015		0.015		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Styrene	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Tetrachloroethene	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Toluene	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
trans-1,2-Dichloroethene	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
trans-1,3-Dichloropropene	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Trichloroethene	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Trichlorofluoromethane	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Vinyl chloride	<0.0051		0.0051		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1
Xylenes, Total	<0.010		0.010		mg/Kg	☼	01/28/20 06:49	01/28/20 09:13	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-1
Date Collected: 01/21/20 09:00
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-1
Matrix: Solid
Percent Solids: 89.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*	*01/28/20 06:49*	*01/28/20 09:13*	*1*
Dibromofluoromethane	*91*		*77 - 127*	*01/28/20 06:49*	*01/28/20 09:13*	*1*
Toluene-d8 (Surr)	*93*		*76 - 127*	*01/28/20 06:49*	*01/28/20 09:13*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<0.10		0.10		mg/Kg	☼	01/29/20 11:16	01/29/20 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*65 - 125*	*01/29/20 11:16*	*01/29/20 12:49*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<5.6		5.6		mg/Kg	☼	02/03/20 10:40	02/05/20 20:49	1
Oil Range Organics (C28-C35)	<5.6		5.6		mg/Kg	☼	02/03/20 10:40	02/05/20 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*75*		*27 - 151*	*02/03/20 10:40*	*02/05/20 20:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**6.1**		1.0		mg/Kg	☼	01/28/20 13:59	01/30/20 12:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	01/30/20 08:30	01/30/20 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.3**		0.01		%			01/25/20 12:21	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-5
Date Collected: 01/21/20 12:20
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-2
Matrix: Solid
Percent Solids: 87.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
1,1,2-Trichloroethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
1,1-Dichloroethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
1,1-Dichloroethene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
1,2,3-Trichlorobenzene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
1,2,4-Trichlorobenzene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
1,2-Dibromo-3-Chloropropane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
1,2-Dichlorobenzene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
1,2-Dichloroethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
1,2-Dichloropropane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
1,3-Dichlorobenzene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
1,4-Dichlorobenzene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
2-Hexanone	<0.027		0.027		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Acetone	<0.027		0.027		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Benzene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Bromodichloromethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Bromoform	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Bromomethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Carbon disulfide	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Carbon tetrachloride	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Chlorobenzene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Chlorobromomethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Chloroethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Chloroform	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Chloromethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
cis-1,2-Dichloroethene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
cis-1,3-Dichloropropene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Dibromochloromethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Dichlorodifluoromethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Ethylbenzene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Ethylene Dibromide	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Isopropylbenzene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Methyl acetate	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Methyl Ethyl Ketone	<0.027		0.027		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
methyl isobutyl ketone	<0.027		0.027		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Methyl tert-butyl ether	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Methylene Chloride	<0.016		0.016		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Styrene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Tetrachloroethene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Toluene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
trans-1,2-Dichloroethene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
trans-1,3-Dichloropropene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Trichloroethene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Trichlorofluoromethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Vinyl chloride	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1
Xylenes, Total	<0.011		0.011		mg/Kg	☼	01/28/20 06:49	01/28/20 11:03	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-5
Date Collected: 01/21/20 12:20
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-2
Matrix: Solid
Percent Solids: 87.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*	*01/28/20 06:49*	*01/28/20 11:03*	*1*
Dibromofluoromethane	*92*		*77 - 127*	*01/28/20 06:49*	*01/28/20 11:03*	*1*
Toluene-d8 (Surr)	*91*		*76 - 127*	*01/28/20 06:49*	*01/28/20 11:03*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<0.11		0.11		mg/Kg	☼	01/29/20 11:16	01/29/20 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*65 - 125*	*01/29/20 11:16*	*01/29/20 14:23*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**23**		5.7		mg/Kg	☼	02/03/20 10:40	02/05/20 21:01	1
Oil Range Organics (C28-C35)	<5.7		5.7		mg/Kg	☼	02/03/20 10:40	02/05/20 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*76*		*27 - 151*	*02/03/20 10:40*	*02/05/20 21:01*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**12**		1.1		mg/Kg	☼	01/28/20 13:59	01/30/20 12:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.041**		0.018		mg/Kg	☼	01/30/20 08:30	01/30/20 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.8**		0.01		%			01/25/20 12:21	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-6
Date Collected: 01/21/20 13:30
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-3
Matrix: Solid
Percent Solids: 94.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
1,1,2,2-Tetrachloroethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
1,1,2-Trichloroethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
1,1-Dichloroethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
1,1-Dichloroethene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
1,2,3-Trichlorobenzene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
1,2,4-Trichlorobenzene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
1,2-Dibromo-3-Chloropropane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
1,2-Dichlorobenzene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
1,2-Dichloroethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
1,2-Dichloropropane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
1,3-Dichlorobenzene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
1,4-Dichlorobenzene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
2-Hexanone	<0.028		0.028		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Acetone	<0.028		0.028		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Benzene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Bromodichloromethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Bromoform	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Bromomethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Carbon disulfide	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Carbon tetrachloride	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Chlorobenzene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Chlorobromomethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Chloroethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Chloroform	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Chloromethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
cis-1,2-Dichloroethene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
cis-1,3-Dichloropropene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Dibromochloromethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Dichlorodifluoromethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Ethylbenzene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Ethylene Dibromide	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Isopropylbenzene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Methyl acetate	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Methyl Ethyl Ketone	<0.028		0.028		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
methyl isobutyl ketone	<0.028		0.028		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Methyl tert-butyl ether	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Methylene Chloride	<0.017		0.017		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Styrene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Tetrachloroethene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Toluene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
trans-1,2-Dichloroethene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
trans-1,3-Dichloropropene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Trichloroethene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Trichlorofluoromethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Vinyl chloride	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1
Xylenes, Total	<0.011		0.011		mg/Kg	☼	01/28/20 06:49	01/28/20 11:25	1

Client Sample ID: B-6

Date Collected: 01/21/20 13:30
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-3

Matrix: Solid
Percent Solids: 94.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	*99*		*67 - 130*	*01/28/20 06:49*	*01/28/20 11:25*	*1*
Dibromofluoromethane	*95*		*77 - 127*	*01/28/20 06:49*	*01/28/20 11:25*	*1*
Toluene-d8 (Surr)	*96*		*76 - 127*	*01/28/20 06:49*	*01/28/20 11:25*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<0.098		0.098		mg/Kg	☼	01/29/20 11:16	01/29/20 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	*108*		*65 - 125*	*01/29/20 11:16*	*01/29/20 14:55*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<100		100		mg/Kg	☼	02/03/20 10:40	02/05/20 21:13	20
Oil Range Organics (C28-C35)	**320**		100		mg/Kg	☼	02/03/20 10:40	02/05/20 21:13	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	*64*		*27 - 151*	*02/03/20 10:40*	*02/05/20 21:13*	*20*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**19**		1.0		mg/Kg	☼	01/28/20 13:59	01/30/20 12:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.047**		0.015		mg/Kg	☼	01/30/20 08:30	01/30/20 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.2**		0.01		%			01/25/20 13:12	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-7
Date Collected: 01/21/20 14:40
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-4
Matrix: Solid
Percent Solids: 91.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
1,1,2-Trichloroethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
1,1-Dichloroethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
1,1-Dichloroethene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
1,2,3-Trichlorobenzene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
1,2,4-Trichlorobenzene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
1,2-Dibromo-3-Chloropropane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
1,2-Dichlorobenzene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
1,2-Dichloroethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
1,2-Dichloropropane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
1,3-Dichlorobenzene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
1,4-Dichlorobenzene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
2-Hexanone	<0.027		0.027		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Acetone	<0.027		0.027		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Benzene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Bromodichloromethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Bromoform	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Bromomethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Carbon disulfide	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Carbon tetrachloride	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Chlorobenzene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Chlorobromomethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Chloroethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Chloroform	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Chloromethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
cis-1,2-Dichloroethene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
cis-1,3-Dichloropropene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Dibromochloromethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Dichlorodifluoromethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Ethylbenzene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Ethylene Dibromide	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Isopropylbenzene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Methyl acetate	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Methyl Ethyl Ketone	<0.027		0.027		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
methyl isobutyl ketone	<0.027		0.027		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Methyl tert-butyl ether	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Methylene Chloride	<0.016		0.016		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Styrene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Tetrachloroethene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Toluene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
trans-1,2-Dichloroethene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
trans-1,3-Dichloropropene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Trichloroethene	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Trichlorofluoromethane	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Vinyl chloride	<0.0053		0.0053		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1
Xylenes, Total	<0.011		0.011		mg/Kg	☼	01/28/20 06:49	01/28/20 11:47	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-7
Date Collected: 01/21/20 14:40
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-4
Matrix: Solid
Percent Solids: 91.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*	*01/28/20 06:49*	*01/28/20 11:47*	*1*
Dibromofluoromethane	*96*		*77 - 127*	*01/28/20 06:49*	*01/28/20 11:47*	*1*
Toluene-d8 (Surr)	*96*		*76 - 127*	*01/28/20 06:49*	*01/28/20 11:47*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<0.11		0.11		mg/Kg	☼	01/29/20 11:16	01/29/20 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*65 - 125*	*01/29/20 11:16*	*01/29/20 15:26*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<11		11		mg/Kg	☼	02/03/20 10:40	02/05/20 21:25	2
Oil Range Organics (C28-C35)	**32**		11		mg/Kg	☼	02/03/20 10:40	02/05/20 21:25	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*65*		*27 - 151*	*02/03/20 10:40*	*02/05/20 21:25*	*2*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**10**		1.0		mg/Kg	☼	01/28/20 13:59	01/30/20 13:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.017		mg/Kg	☼	01/30/20 08:30	01/30/20 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.6**		0.01		%			01/25/20 13:12	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-8
Date Collected: 01/21/20 15:20
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-5
Matrix: Solid
Percent Solids: 90.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
1,1,2-Trichloroethane	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
1,1-Dichloroethane	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
1,1-Dichloroethene	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
1,2,3-Trichlorobenzene	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
1,2,4-Trichlorobenzene	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
1,2-Dibromo-3-Chloropropane	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
1,2-Dichlorobenzene	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
1,2-Dichloroethane	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
1,2-Dichloropropane	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
1,3-Dichlorobenzene	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
1,4-Dichlorobenzene	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
2-Hexanone	<0.027		0.027		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Acetone	<0.027		0.027		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Benzene	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Bromodichloromethane	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Bromoform	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Bromomethane	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Carbon disulfide	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Carbon tetrachloride	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Chlorobenzene	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Chlorobromomethane	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Chloroethane	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Chloroform	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Chloromethane	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
cis-1,2-Dichloroethene	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
cis-1,3-Dichloropropene	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Dibromochloromethane	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Dichlorodifluoromethane	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Ethylbenzene	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Ethylene Dibromide	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Isopropylbenzene	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Methyl acetate	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Methyl Ethyl Ketone	<0.027		0.027		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
methyl isobutyl ketone	<0.027		0.027		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Methyl tert-butyl ether	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Methylene Chloride	<0.016		0.016		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Styrene	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Tetrachloroethene	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Toluene	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
trans-1,2-Dichloroethene	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
trans-1,3-Dichloropropene	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Trichloroethene	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Trichlorofluoromethane	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Vinyl chloride	<0.0055		0.0055		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1
Xylenes, Total	<0.011		0.011		mg/Kg	☼	01/28/20 06:49	01/28/20 12:09	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-8
Date Collected: 01/21/20 15:20
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-5
Matrix: Solid
Percent Solids: 90.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		67 - 130	01/28/20 06:49	01/28/20 12:09	1
Dibromofluoromethane	95		77 - 127	01/28/20 06:49	01/28/20 12:09	1
Toluene-d8 (Surr)	95		76 - 127	01/28/20 06:49	01/28/20 12:09	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	0.13		0.11		mg/Kg	☼	01/29/20 11:16	01/29/20 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	99		65 - 125	01/29/20 11:16	01/29/20 15:57	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	7.7		5.5		mg/Kg	☼	02/03/20 10:40	02/05/20 21:36	1
Oil Range Organics (C28-C35)	7.1		5.5		mg/Kg	☼	02/03/20 10:40	02/05/20 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	82		27 - 151	02/03/20 10:40	02/05/20 21:36	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.7		1.1		mg/Kg	☼	01/28/20 13:59	01/30/20 13:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.017		mg/Kg	☼	01/30/20 08:30	01/30/20 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		0.01		%			01/25/20 13:12	1

Client Sample ID: B-9

Date Collected: 01/21/20 15:30
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-6

Matrix: Solid
Percent Solids: 89.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
1,1,2-Trichloroethane	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
1,1-Dichloroethane	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
1,1-Dichloroethene	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
1,2,3-Trichlorobenzene	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
1,2,4-Trichlorobenzene	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
1,2-Dibromo-3-Chloropropane	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
1,2-Dichlorobenzene	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
1,2-Dichloroethane	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
1,2-Dichloropropane	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
1,3-Dichlorobenzene	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
1,4-Dichlorobenzene	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
2-Hexanone	<0.026		0.026		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Acetone	<0.026		0.026		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Benzene	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Bromodichloromethane	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Bromoform	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Bromomethane	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Carbon disulfide	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Carbon tetrachloride	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Chlorobenzene	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Chlorobromomethane	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Chloroethane	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Chloroform	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Chloromethane	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
cis-1,2-Dichloroethene	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
cis-1,3-Dichloropropene	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Dibromochloromethane	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Dichlorodifluoromethane	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Ethylbenzene	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Ethylene Dibromide	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Isopropylbenzene	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Methyl acetate	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Methyl Ethyl Ketone	<0.026		0.026		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
methyl isobutyl ketone	<0.026		0.026		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Methyl tert-butyl ether	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Methylene Chloride	<0.016		0.016		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Styrene	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Tetrachloroethene	**0.013**		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Toluene	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
trans-1,2-Dichloroethene	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
trans-1,3-Dichloropropene	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Trichloroethene	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Trichlorofluoromethane	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Vinyl chloride	<0.0052		0.0052		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1
Xylenes, Total	<0.010		0.010		mg/Kg	☼	01/28/20 06:49	01/28/20 12:31	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-9
Date Collected: 01/21/20 15:30
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-6
Matrix: Solid
Percent Solids: 89.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*	*01/28/20 06:49*	*01/28/20 12:31*	*1*
Dibromofluoromethane	*92*		*77 - 127*	*01/28/20 06:49*	*01/28/20 12:31*	*1*
Toluene-d8 (Surr)	*98*		*76 - 127*	*01/28/20 06:49*	*01/28/20 12:31*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<0.11		0.11		mg/Kg	☼	01/29/20 11:16	01/29/20 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*94*		*65 - 125*	*01/29/20 11:16*	*01/29/20 16:29*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**15**		5.6		mg/Kg	☼	02/03/20 10:40	02/05/20 21:48	1
Oil Range Organics (C28-C35)	**19**		5.6		mg/Kg	☼	02/03/20 10:40	02/05/20 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*71*		*27 - 151*	*02/03/20 10:40*	*02/05/20 21:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**5.7**		1.1		mg/Kg	☼	01/28/20 13:59	01/30/20 13:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	01/30/20 08:30	01/30/20 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.7**		0.01		%			01/25/20 13:12	1

Client Sample ID: B-10

Date Collected: 01/21/20 14:43
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-7

Matrix: Solid
Percent Solids: 94.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
1,1,2-Trichloroethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
1,1-Dichloroethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
1,1-Dichloroethene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
1,2,3-Trichlorobenzene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
1,2,4-Trichlorobenzene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
1,2-Dichlorobenzene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
1,2-Dichloroethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
1,2-Dichloropropane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
1,3-Dichlorobenzene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
1,4-Dichlorobenzene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
2-Hexanone	<0.025		0.025		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Acetone	<0.025		0.025		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Benzene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Bromodichloromethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Bromoform	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Bromomethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Carbon disulfide	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Carbon tetrachloride	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Chlorobenzene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Chlorobromomethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Chloroethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Chloroform	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Chloromethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
cis-1,2-Dichloroethene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
cis-1,3-Dichloropropene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Dibromochloromethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Dichlorodifluoromethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Ethylbenzene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Ethylene Dibromide	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Isopropylbenzene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Methyl acetate	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Methyl Ethyl Ketone	<0.025		0.025		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
methyl isobutyl ketone	<0.025		0.025		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Methyl tert-butyl ether	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Methylene Chloride	<0.015		0.015		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Styrene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Tetrachloroethene	**0.0081**		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Toluene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
trans-1,2-Dichloroethene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
trans-1,3-Dichloropropene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Trichloroethene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Trichlorofluoromethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Vinyl chloride	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1
Xylenes, Total	<0.010		0.010		mg/Kg	☼	01/28/20 06:49	01/28/20 12:53	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-10

Date Collected: 01/21/20 14:43
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-7

Matrix: Solid
Percent Solids: 94.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*109*		*67 - 130*	*01/28/20 06:49*	*01/28/20 12:53*	*1*
Dibromofluoromethane	*94*		*77 - 127*	*01/28/20 06:49*	*01/28/20 12:53*	*1*
Toluene-d8 (Surr)	*95*		*76 - 127*	*01/28/20 06:49*	*01/28/20 12:53*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<0.11		0.11		mg/Kg	☼	01/29/20 11:16	01/29/20 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*65 - 125*	*01/29/20 11:16*	*01/29/20 17:31*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**24**		5.3		mg/Kg	☼	02/03/20 10:40	02/05/20 22:12	1
Oil Range Organics (C28-C35)	**22**		5.3		mg/Kg	☼	02/03/20 10:40	02/05/20 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*81*		*27 - 151*	*02/03/20 10:40*	*02/05/20 22:12*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**3.2**		0.98		mg/Kg	☼	01/28/20 13:59	01/30/20 13:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016		mg/Kg	☼	01/30/20 08:30	01/30/20 12:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.3**		0.01		%			01/25/20 13:12	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-11
Date Collected: 01/22/20 11:45
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-8
Matrix: Solid
Percent Solids: 88.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
1,1,2,2-Tetrachloroethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
1,1,2-Trichloroethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
1,1-Dichloroethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
1,1-Dichloroethene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
1,2,3-Trichlorobenzene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
1,2,4-Trichlorobenzene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
1,2-Dibromo-3-Chloropropane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
1,2-Dichlorobenzene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
1,2-Dichloroethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
1,2-Dichloropropane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
1,3-Dichlorobenzene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
1,4-Dichlorobenzene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
2-Hexanone	<0.030		0.030		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Acetone	<0.030		0.030		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Benzene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Bromodichloromethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Bromoform	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Bromomethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Carbon disulfide	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Carbon tetrachloride	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Chlorobenzene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Chlorobromomethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Chloroethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Chloroform	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Chloromethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
cis-1,2-Dichloroethene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
cis-1,3-Dichloropropene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Dibromochloromethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Dichlorodifluoromethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Ethylbenzene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Ethylene Dibromide	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Isopropylbenzene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Methyl acetate	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Methyl Ethyl Ketone	<0.030		0.030		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
methyl isobutyl ketone	<0.030		0.030		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Methyl tert-butyl ether	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Methylene Chloride	<0.018		0.018		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Styrene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Tetrachloroethene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Toluene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
trans-1,2-Dichloroethene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
trans-1,3-Dichloropropene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Trichloroethene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Trichlorofluoromethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Vinyl chloride	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1
Xylenes, Total	<0.012		0.012		mg/Kg	☼	01/28/20 06:49	01/28/20 13:15	1

Client Sample ID: B-11

Date Collected: 01/22/20 11:45
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-8

Matrix: Solid
Percent Solids: 88.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	*98*		*67 - 130*	*01/28/20 06:49*	*01/28/20 13:15*	*1*
Dibromofluoromethane	*89*		*77 - 127*	*01/28/20 06:49*	*01/28/20 13:15*	*1*
Toluene-d8 (Surr)	*96*		*76 - 127*	*01/28/20 06:49*	*01/28/20 13:15*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<0.11		0.11		mg/Kg	☼	01/29/20 11:16	01/29/20 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	*99*		*65 - 125*	*01/29/20 11:16*	*01/29/20 18:03*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**9.9**		5.5		mg/Kg	☼	02/03/20 10:40	02/05/20 22:24	1
Oil Range Organics (C28-C35)	**22**		5.5		mg/Kg	☼	02/03/20 10:40	02/05/20 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	*71*		*27 - 151*	*02/03/20 10:40*	*02/05/20 22:24*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**9.2**		1.1		mg/Kg	☼	01/28/20 13:59	01/30/20 13:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**		0.018		mg/Kg	☼	01/30/20 08:30	01/30/20 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.3**		0.01		%			01/25/20 13:12	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-12
Date Collected: 01/22/20 11:00
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-9
Matrix: Solid
Percent Solids: 90.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
1,1,2,2-Tetrachloroethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
1,1,2-Trichloroethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
1,1-Dichloroethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
1,1-Dichloroethene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
1,2,3-Trichlorobenzene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
1,2,4-Trichlorobenzene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
1,2-Dibromo-3-Chloropropane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
1,2-Dichlorobenzene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
1,2-Dichloroethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
1,2-Dichloropropane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
1,3-Dichlorobenzene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
1,4-Dichlorobenzene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
2-Hexanone	<0.028		0.028		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Acetone	<0.028		0.028		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Benzene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Bromodichloromethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Bromoform	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Bromomethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Carbon disulfide	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Carbon tetrachloride	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Chlorobenzene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Chlorobromomethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Chloroethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Chloroform	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Chloromethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
cis-1,2-Dichloroethene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
cis-1,3-Dichloropropene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Dibromochloromethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Dichlorodifluoromethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Ethylbenzene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Ethylene Dibromide	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Isopropylbenzene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Methyl acetate	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Methyl Ethyl Ketone	<0.028		0.028		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
methyl isobutyl ketone	<0.028		0.028		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Methyl tert-butyl ether	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Methylene Chloride	<0.017		0.017		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Styrene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Tetrachloroethene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Toluene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
trans-1,2-Dichloroethene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
trans-1,3-Dichloropropene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Trichloroethene	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Trichlorofluoromethane	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Vinyl chloride	<0.0056		0.0056		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1
Xylenes, Total	<0.011		0.011		mg/Kg	☼	01/28/20 06:49	01/28/20 13:37	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-12

Date Collected: 01/22/20 11:00
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-9

Matrix: Solid
Percent Solids: 90.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		67 - 130	01/28/20 06:49	01/28/20 13:37	1
Dibromofluoromethane	90		77 - 127	01/28/20 06:49	01/28/20 13:37	1
Toluene-d8 (Surr)	89		76 - 127	01/28/20 06:49	01/28/20 13:37	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<0.11		0.11		mg/Kg	☼	01/29/20 11:16	01/29/20 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	99		65 - 125	01/29/20 11:16	01/29/20 18:34	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**7.9**		5.4		mg/Kg	☼	02/03/20 10:40	02/05/20 22:35	1
Oil Range Organics (C28-C35)	**18**		5.4		mg/Kg	☼	02/03/20 10:40	02/05/20 22:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	72		27 - 151	02/03/20 10:40	02/05/20 22:35	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**4.1**		1.1		mg/Kg	☼	01/28/20 13:59	01/30/20 13:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.062**		0.015		mg/Kg	☼	01/30/20 08:30	01/30/20 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.9**		0.01		%			01/25/20 13:12	1

Client Sample ID: B-13
Date Collected: 01/22/20 09:05
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-10
Matrix: Solid
Percent Solids: 90.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
1,1,2,2-Tetrachloroethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
1,1,2-Trichloroethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
1,1-Dichloroethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
1,1-Dichloroethene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
1,2,3-Trichlorobenzene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
1,2,4-Trichlorobenzene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
1,2-Dibromo-3-Chloropropane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
1,2-Dichlorobenzene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
1,2-Dichloroethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
1,2-Dichloropropane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
1,3-Dichlorobenzene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
1,4-Dichlorobenzene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
2-Hexanone	<0.030		0.030		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Acetone	<0.030		0.030		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Benzene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Bromodichloromethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Bromoform	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Bromomethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Carbon disulfide	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Carbon tetrachloride	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Chlorobenzene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Chlorobromomethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Chloroethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Chloroform	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Chloromethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
cis-1,2-Dichloroethene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
cis-1,3-Dichloropropene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Dibromochloromethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Dichlorodifluoromethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Ethylbenzene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Ethylene Dibromide	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Isopropylbenzene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Methyl acetate	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Methyl Ethyl Ketone	<0.030		0.030		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
methyl isobutyl ketone	<0.030		0.030		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Methyl tert-butyl ether	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Methylene Chloride	<0.018		0.018		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Styrene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Tetrachloroethene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Toluene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
trans-1,2-Dichloroethene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
trans-1,3-Dichloropropene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Trichloroethene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Trichlorofluoromethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Vinyl chloride	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1
Xylenes, Total	<0.012		0.012		mg/Kg	☼	01/28/20 06:49	01/28/20 13:59	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-13
Date Collected: 01/22/20 09:05
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-10
Matrix: Solid
Percent Solids: 90.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*67 - 130*	*01/28/20 06:49*	*01/28/20 13:59*	*1*
Dibromofluoromethane	*92*		*77 - 127*	*01/28/20 06:49*	*01/28/20 13:59*	*1*
Toluene-d8 (Surr)	*95*		*76 - 127*	*01/28/20 06:49*	*01/28/20 13:59*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<0.11		0.11		mg/Kg	☼	01/29/20 11:16	01/29/20 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*65 - 125*	*01/29/20 11:16*	*01/29/20 19:05*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<5.4		5.4		mg/Kg	☼	02/03/20 10:40	02/05/20 22:47	1
Oil Range Organics (C28-C35)	<5.4		5.4		mg/Kg	☼	02/03/20 10:40	02/05/20 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*75*		*27 - 151*	*02/03/20 10:40*	*02/05/20 22:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**4.4**		1.1		mg/Kg	☼	01/28/20 13:59	01/30/20 14:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.017		mg/Kg	☼	01/30/20 08:30	01/30/20 12:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.01		%			01/25/20 13:12	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-14
Date Collected: 01/22/20 10:00
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-11
Matrix: Solid
Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
1,1,2,2-Tetrachloroethane	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
1,1,2-Trichloroethane	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
1,1-Dichloroethane	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
1,1-Dichloroethene	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
1,2,3-Trichlorobenzene	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
1,2,4-Trichlorobenzene	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
1,2-Dibromo-3-Chloropropane	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
1,2-Dichlorobenzene	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
1,2-Dichloroethane	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
1,2-Dichloropropane	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
1,3-Dichlorobenzene	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
1,4-Dichlorobenzene	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
2-Hexanone	<0.030		0.030		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Acetone	<0.030		0.030		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Benzene	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Bromodichloromethane	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Bromoform	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Bromomethane	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Carbon disulfide	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Carbon tetrachloride	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Chlorobenzene	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Chlorobromomethane	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Chloroethane	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Chloroform	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Chloromethane	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
cis-1,2-Dichloroethene	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
cis-1,3-Dichloropropene	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Dibromochloromethane	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Dichlorodifluoromethane	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Ethylbenzene	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Ethylene Dibromide	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Isopropylbenzene	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Methyl acetate	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Methyl Ethyl Ketone	<0.030		0.030		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
methyl isobutyl ketone	<0.030		0.030		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Methyl tert-butyl ether	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Methylene Chloride	<0.018		0.018		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Styrene	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Tetrachloroethene	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Toluene	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
trans-1,2-Dichloroethene	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
trans-1,3-Dichloropropene	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Trichloroethene	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Trichlorofluoromethane	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Vinyl chloride	<0.0059		0.0059		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1
Xylenes, Total	<0.012		0.012		mg/Kg	☼	01/28/20 06:49	01/28/20 14:21	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-14
Date Collected: 01/22/20 10:00
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-11
Matrix: Solid
Percent Solids: 82.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		67 - 130	01/28/20 06:49	01/28/20 14:21	1
Dibromofluoromethane	89		77 - 127	01/28/20 06:49	01/28/20 14:21	1
Toluene-d8 (Surr)	93		76 - 127	01/28/20 06:49	01/28/20 14:21	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<0.12		0.12		mg/Kg	☼	01/29/20 11:16	01/29/20 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	100		65 - 125	01/29/20 11:16	01/29/20 19:37	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**50**		6.0		mg/Kg	☼	02/03/20 10:40	02/05/20 22:59	1
Oil Range Organics (C28-C35)	**77**		6.0		mg/Kg	☼	02/03/20 10:40	02/05/20 22:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	83		27 - 151	02/03/20 10:40	02/05/20 22:59	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**290**		1.2		mg/Kg	☼	01/28/20 13:59	01/30/20 14:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.35**		0.018		mg/Kg	☼	01/30/20 08:30	01/30/20 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.2**		0.01		%			01/25/20 13:12	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-15
Date Collected: 01/22/20 13:30
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-12
Matrix: Solid
Percent Solids: 87.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
1,1,2,2-Tetrachloroethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
1,1,2-Trichloroethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
1,1-Dichloroethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
1,1-Dichloroethene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
1,2,3-Trichlorobenzene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
1,2,4-Trichlorobenzene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
1,2-Dibromo-3-Chloropropane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
1,2-Dichlorobenzene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
1,2-Dichloroethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
1,2-Dichloropropane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
1,3-Dichlorobenzene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
1,4-Dichlorobenzene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
2-Hexanone	<0.030		0.030		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Acetone	**0.091**		0.030		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Benzene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Bromodichloromethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Bromoform	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Bromomethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Carbon disulfide	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Carbon tetrachloride	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Chlorobenzene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Chlorobromomethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Chloroethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Chloroform	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Chloromethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
cis-1,2-Dichloroethene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
cis-1,3-Dichloropropene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Dibromochloromethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Dichlorodifluoromethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Ethylbenzene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Ethylene Dibromide	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Isopropylbenzene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Methyl acetate	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Methyl Ethyl Ketone	<0.030		0.030		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
methyl isobutyl ketone	<0.030		0.030		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Methyl tert-butyl ether	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Methylene Chloride	<0.018		0.018		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Styrene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Tetrachloroethene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Toluene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
trans-1,2-Dichloroethene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
trans-1,3-Dichloropropene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Trichloroethene	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Trichlorofluoromethane	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Vinyl chloride	<0.0060		0.0060		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1
Xylenes, Total	<0.012		0.012		mg/Kg	☼	01/28/20 06:49	01/28/20 14:43	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-15
Date Collected: 01/22/20 13:30
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-12
Matrix: Solid
Percent Solids: 87.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*	*01/28/20 06:49*	*01/28/20 14:43*	*1*
Dibromofluoromethane	*93*		*77 - 127*	*01/28/20 06:49*	*01/28/20 14:43*	*1*
Toluene-d8 (Surr)	*93*		*76 - 127*	*01/28/20 06:49*	*01/28/20 14:43*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<0.11		0.11		mg/Kg	☼	01/29/20 11:16	01/29/20 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*65 - 125*	*01/29/20 11:16*	*01/29/20 20:08*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6.0**		5.6		mg/Kg	☼	02/03/20 10:40	02/05/20 23:11	1
Oil Range Organics (C28-C35)	<5.6		5.6		mg/Kg	☼	02/03/20 10:40	02/05/20 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*81*		*27 - 151*	*02/03/20 10:40*	*02/05/20 23:11*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**2.8**		1.1		mg/Kg	☼	01/28/20 13:59	01/30/20 14:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	01/30/20 08:30	01/30/20 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.2**		0.01		%			01/25/20 13:12	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-16
Date Collected: 01/22/20 12:30
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-13
Matrix: Solid
Percent Solids: 95.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
1,1,2-Trichloroethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
1,1-Dichloroethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
1,1-Dichloroethene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
1,2,3-Trichlorobenzene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
1,2,4-Trichlorobenzene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
1,2-Dichlorobenzene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
1,2-Dichloroethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
1,2-Dichloropropane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
1,3-Dichlorobenzene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
1,4-Dichlorobenzene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
2-Hexanone	<0.025		0.025		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Acetone	<0.025		0.025		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Benzene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Bromodichloromethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Bromoform	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Bromomethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Carbon disulfide	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Carbon tetrachloride	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Chlorobenzene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Chlorobromomethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Chloroethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Chloroform	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Chloromethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
cis-1,2-Dichloroethene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
cis-1,3-Dichloropropene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Dibromochloromethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Dichlorodifluoromethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Ethylbenzene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Ethylene Dibromide	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Isopropylbenzene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Methyl acetate	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Methyl Ethyl Ketone	<0.025		0.025		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
methyl isobutyl ketone	<0.025		0.025		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Methyl tert-butyl ether	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Methylene Chloride	<0.015		0.015		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Styrene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Tetrachloroethene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Toluene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
trans-1,2-Dichloroethene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
trans-1,3-Dichloropropene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Trichloroethene	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Trichlorofluoromethane	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Vinyl chloride	<0.0050		0.0050		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1
Xylenes, Total	<0.010		0.010		mg/Kg	☼	01/28/20 06:49	01/28/20 15:05	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-16
Date Collected: 01/22/20 12:30
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-13
Matrix: Solid
Percent Solids: 95.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*	*01/28/20 06:49*	*01/28/20 15:05*	*1*
Dibromofluoromethane	*90*		*77 - 127*	*01/28/20 06:49*	*01/28/20 15:05*	*1*
Toluene-d8 (Surr)	*95*		*76 - 127*	*01/28/20 06:49*	*01/28/20 15:05*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<0.10		0.10		mg/Kg	☼	01/29/20 11:16	01/29/20 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*65 - 125*	*01/29/20 11:16*	*01/29/20 20:39*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**26**		5.2		mg/Kg	☼	02/03/20 10:40	02/05/20 23:22	1
Oil Range Organics (C28-C35)	**50**		5.2		mg/Kg	☼	02/03/20 10:40	02/05/20 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*82*		*27 - 151*	*02/03/20 10:40*	*02/05/20 23:22*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**8.3**		0.95		mg/Kg	☼	01/28/20 13:59	01/30/20 14:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016		mg/Kg	☼	01/30/20 08:30	01/30/20 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.6**		0.01		%			01/27/20 10:30	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-2
Date Collected: 01/22/20 15:20
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-14
Matrix: Solid
Percent Solids: 83.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
1,1,2,2-Tetrachloroethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
1,1,2-Trichloroethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
1,1-Dichloroethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
1,1-Dichloroethene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
1,2,3-Trichlorobenzene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
1,2,4-Trichlorobenzene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
1,2-Dibromo-3-Chloropropane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
1,2-Dichlorobenzene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
1,2-Dichloroethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
1,2-Dichloropropane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
1,3-Dichlorobenzene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
1,4-Dichlorobenzene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
2-Hexanone	<0.031		0.031		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Acetone	<0.031		0.031		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Benzene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Bromodichloromethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Bromoform	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Bromomethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Carbon disulfide	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Carbon tetrachloride	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Chlorobenzene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Chlorobromomethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Chloroethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Chloroform	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Chloromethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
cis-1,2-Dichloroethene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
cis-1,3-Dichloropropene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Dibromochloromethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Dichlorodifluoromethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Ethylbenzene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Ethylene Dibromide	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Isopropylbenzene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Methyl acetate	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Methyl Ethyl Ketone	<0.031		0.031		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
methyl isobutyl ketone	<0.031		0.031		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Methyl tert-butyl ether	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Methylene Chloride	<0.018		0.018		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Styrene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Tetrachloroethene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Toluene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
trans-1,2-Dichloroethene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
trans-1,3-Dichloropropene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Trichloroethene	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Trichlorofluoromethane	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Vinyl chloride	<0.0061		0.0061		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1
Xylenes, Total	<0.012		0.012		mg/Kg	☼	01/28/20 06:49	01/28/20 15:27	1

Client Sample ID: B-2

Date Collected: 01/22/20 15:20
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-14

Matrix: Solid
Percent Solids: 83.9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*67 - 130*	*01/28/20 06:49*	*01/28/20 15:27*	*1*
Dibromofluoromethane	*93*		*77 - 127*	*01/28/20 06:49*	*01/28/20 15:27*	*1*
Toluene-d8 (Surr)	*92*		*76 - 127*	*01/28/20 06:49*	*01/28/20 15:27*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	**0.48**		0.12		mg/Kg	☼	01/29/20 11:16	01/29/20 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*94*		*65 - 125*	*01/29/20 11:16*	*01/29/20 21:11*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<5.9		5.9		mg/Kg	☼	02/03/20 10:40	02/05/20 23:34	1
Oil Range Organics (C28-C35)	<5.9		5.9		mg/Kg	☼	02/03/20 10:40	02/05/20 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*76*		*27 - 151*	*02/03/20 10:40*	*02/05/20 23:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.097		0.097		mg/Kg	☼	01/27/20 13:19	01/29/20 22:16	5
PCB-1221	<0.097		0.097		mg/Kg	☼	01/27/20 13:19	01/29/20 22:16	5
PCB-1232	<0.097		0.097		mg/Kg	☼	01/27/20 13:19	01/29/20 22:16	5
PCB-1242	<0.097		0.097		mg/Kg	☼	01/27/20 13:19	01/29/20 22:16	5
PCB-1248	<0.097		0.097		mg/Kg	☼	01/27/20 13:19	01/29/20 22:16	5
PCB-1254	<0.097		0.097		mg/Kg	☼	01/27/20 13:19	01/29/20 22:16	5
PCB-1260	<0.097		0.097		mg/Kg	☼	01/27/20 13:19	01/29/20 22:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*47*		*26 - 129*	*01/27/20 13:19*	*01/29/20 22:16*	*5*
Tetrachloro-m-xylene	*34*		*31 - 122*	*01/27/20 13:19*	*01/29/20 22:16*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**93**		1.1		mg/Kg	☼	01/28/20 13:59	01/30/20 14:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.26**		0.018		mg/Kg	☼	01/30/20 08:30	01/30/20 13:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.1**		0.01		%			01/27/20 10:30	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-3
Date Collected: 01/21/20 10:00
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-15
Matrix: Solid
Percent Solids: 90.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
1,1,2,2-Tetrachloroethane	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
1,1,2-Trichloroethane	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
1,1-Dichloroethane	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
1,1-Dichloroethene	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
1,2,3-Trichlorobenzene	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
1,2,4-Trichlorobenzene	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
1,2-Dibromo-3-Chloropropane	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
1,2-Dichlorobenzene	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
1,2-Dichloroethane	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
1,2-Dichloropropane	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
1,3-Dichlorobenzene	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
1,4-Dichlorobenzene	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
2-Hexanone	<0.029		0.029		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Acetone	<0.029		0.029		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Benzene	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Bromodichloromethane	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Bromoform	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Bromomethane	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Carbon disulfide	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Carbon tetrachloride	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Chlorobenzene	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Chlorobromomethane	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Chloroethane	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Chloroform	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Chloromethane	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
cis-1,2-Dichloroethene	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
cis-1,3-Dichloropropene	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Dibromochloromethane	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Dichlorodifluoromethane	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Ethylbenzene	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Ethylene Dibromide	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Isopropylbenzene	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Methyl acetate	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Methyl Ethyl Ketone	<0.029		0.029		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
methyl isobutyl ketone	<0.029		0.029		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Methyl tert-butyl ether	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Methylene Chloride	<0.017		0.017		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Styrene	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Tetrachloroethene	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Toluene	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
trans-1,2-Dichloroethene	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
trans-1,3-Dichloropropene	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Trichloroethene	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Trichlorofluoromethane	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Vinyl chloride	<0.0057		0.0057		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1
Xylenes, Total	<0.011		0.011		mg/Kg	☼	01/28/20 06:49	01/28/20 15:49	1

Client Sample ID: B-3

Date Collected: 01/21/20 10:00
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-15

Matrix: Solid
Percent Solids: 90.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*	*01/28/20 06:49*	*01/28/20 15:49*	*1*
Dibromofluoromethane	*94*		*77 - 127*	*01/28/20 06:49*	*01/28/20 15:49*	*1*
Toluene-d8 (Surr)	*92*		*76 - 127*	*01/28/20 06:49*	*01/28/20 15:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 01:51	1
2-Methylnaphthalene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 01:51	1
Acenaphthene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 01:51	1
Acenaphthylene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 01:51	1
Anthracene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 01:51	1
Benzo[a]anthracene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 01:51	1
Benzo[a]pyrene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 01:51	1
Benzo[b]fluoranthene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 01:51	1
Benzo[g,h,i]perylene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 01:51	1
Benzo[k]fluoranthene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 01:51	1
Chrysene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 01:51	1
Dibenz(a,h)anthracene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 01:51	1
Fluoranthene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 01:51	1
Fluorene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 01:51	1
Indeno[1,2,3-cd]pyrene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 01:51	1
Naphthalene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 01:51	1
Phenanthrene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 01:51	1
Pyrene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*27 - 127*	*01/28/20 14:46*	*01/31/20 01:51*	*1*
Nitrobenzene-d5 (Surr)	*51*		*15 - 136*	*01/28/20 14:46*	*01/31/20 01:51*	*1*
Terphenyl-d14 (Surr)	*76*		*24 - 146*	*01/28/20 14:46*	*01/31/20 01:51*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<0.11		0.11		mg/Kg	☼	01/29/20 11:16	01/29/20 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*65 - 125*	*01/29/20 11:16*	*01/29/20 21:42*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**17**		5.4		mg/Kg	☼	02/03/20 10:40	02/05/20 23:46	1
Oil Range Organics (C28-C35)	**42**		5.4		mg/Kg	☼	02/03/20 10:40	02/05/20 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*82*		*27 - 151*	*02/03/20 10:40*	*02/05/20 23:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.019		0.019		mg/Kg	☼	01/27/20 13:19	01/29/20 22:41	1
PCB-1221	<0.019		0.019		mg/Kg	☼	01/27/20 13:19	01/29/20 22:41	1
PCB-1232	<0.019		0.019		mg/Kg	☼	01/27/20 13:19	01/29/20 22:41	1
PCB-1242	<0.019		0.019		mg/Kg	☼	01/27/20 13:19	01/29/20 22:41	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-3
Date Collected: 01/21/20 10:00
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-15
Matrix: Solid
Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.019		0.019		mg/Kg	☼	01/27/20 13:19	01/29/20 22:41	1
PCB-1254	<0.019		0.019		mg/Kg	☼	01/27/20 13:19	01/29/20 22:41	1
PCB-1260	<0.019		0.019		mg/Kg	☼	01/27/20 13:19	01/29/20 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*90*		*26 - 129*	*01/27/20 13:19*	*01/29/20 22:41*	*1*
Tetrachloro-m-xylene	*57*		*31 - 122*	*01/27/20 13:19*	*01/29/20 22:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7		0.01		%			01/27/20 10:30	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-4
Date Collected: 01/21/20 11:00
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-16
Matrix: Solid
Percent Solids: 89.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
1,1,2-Trichloroethane	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
1,1-Dichloroethane	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
1,1-Dichloroethene	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
1,2,3-Trichlorobenzene	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
1,2,4-Trichlorobenzene	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
1,2-Dibromo-3-Chloropropane	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
1,2-Dichlorobenzene	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
1,2-Dichloroethane	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
1,2-Dichloropropane	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
1,3-Dichlorobenzene	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
1,4-Dichlorobenzene	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
2-Hexanone	<0.027		0.027		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Acetone	<0.027		0.027		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Benzene	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Bromodichloromethane	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Bromoform	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Bromomethane	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Carbon disulfide	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Carbon tetrachloride	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Chlorobenzene	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Chlorobromomethane	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Chloroethane	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Chloroform	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Chloromethane	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
cis-1,2-Dichloroethene	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
cis-1,3-Dichloropropene	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Dibromochloromethane	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Dichlorodifluoromethane	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Ethylbenzene	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Ethylene Dibromide	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Isopropylbenzene	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Methyl acetate	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Methyl Ethyl Ketone	<0.027		0.027		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
methyl isobutyl ketone	<0.027		0.027		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Methyl tert-butyl ether	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Methylene Chloride	<0.016		0.016		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Styrene	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Tetrachloroethene	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Toluene	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
trans-1,2-Dichloroethene	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
trans-1,3-Dichloropropene	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Trichloroethene	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Trichlorofluoromethane	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Vinyl chloride	<0.0054		0.0054		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1
Xylenes, Total	<0.011		0.011		mg/Kg	☼	01/28/20 06:49	01/28/20 16:11	1

Client Sample ID: B-4

Date Collected: 01/21/20 11:00
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-16

Matrix: Solid
Percent Solids: 89.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*	*01/28/20 06:49*	*01/28/20 16:11*	*1*
Dibromofluoromethane	*91*		*77 - 127*	*01/28/20 06:49*	*01/28/20 16:11*	*1*
Toluene-d8 (Surr)	*95*		*76 - 127*	*01/28/20 06:49*	*01/28/20 16:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 02:15	1
2-Methylnaphthalene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 02:15	1
Acenaphthene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 02:15	1
Acenaphthylene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 02:15	1
Anthracene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 02:15	1
Benzo[a]anthracene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 02:15	1
Benzo[a]pyrene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 02:15	1
Benzo[b]fluoranthene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 02:15	1
Benzo[g,h,i]perylene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 02:15	1
Benzo[k]fluoranthene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 02:15	1
Chrysene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 02:15	1
Dibenz(a,h)anthracene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 02:15	1
Fluoranthene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 02:15	1
Fluorene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 02:15	1
Indeno[1,2,3-cd]pyrene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 02:15	1
Naphthalene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 02:15	1
Phenanthrene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 02:15	1
Pyrene	<0.36		0.36		mg/Kg	☼	01/28/20 14:46	01/31/20 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*27 - 127*	*01/28/20 14:46*	*01/31/20 02:15*	*1*
Nitrobenzene-d5 (Surr)	*49*		*15 - 136*	*01/28/20 14:46*	*01/31/20 02:15*	*1*
Terphenyl-d14 (Surr)	*80*		*24 - 146*	*01/28/20 14:46*	*01/31/20 02:15*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<0.10		0.10		mg/Kg	☼	01/29/20 11:16	01/29/20 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*65 - 125*	*01/29/20 11:16*	*01/29/20 22:13*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**18**		5.4		mg/Kg	☼	02/03/20 10:40	02/05/20 23:57	1
Oil Range Organics (C28-C35)	**40**		5.4		mg/Kg	☼	02/03/20 10:40	02/05/20 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*83*		*27 - 151*	*02/03/20 10:40*	*02/05/20 23:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.019		0.019		mg/Kg	☼	01/27/20 13:19	01/29/20 23:06	1
PCB-1221	<0.019		0.019		mg/Kg	☼	01/27/20 13:19	01/29/20 23:06	1
PCB-1232	<0.019		0.019		mg/Kg	☼	01/27/20 13:19	01/29/20 23:06	1
PCB-1242	<0.019		0.019		mg/Kg	☼	01/27/20 13:19	01/29/20 23:06	1

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-4
Date Collected: 01/21/20 11:00
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-16
Matrix: Solid
Percent Solids: 89.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.019		0.019		mg/Kg	☼	01/27/20 13:19	01/29/20 23:06	1
PCB-1254	<0.019		0.019		mg/Kg	☼	01/27/20 13:19	01/29/20 23:06	1
PCB-1260	<0.019		0.019		mg/Kg	☼	01/27/20 13:19	01/29/20 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*26 - 129*	*01/27/20 13:19*	*01/29/20 23:06*	*1*
Tetrachloro-m-xylene	*48*		*31 - 122*	*01/27/20 13:19*	*01/29/20 23:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.5**		0.01		%			01/27/20 10:30	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-475647/1-A
Matrix: Solid
Analysis Batch: 475624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
1,1,2-Trichloroethane	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
1,1-Dichloroethane	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
1,1-Dichloroethene	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
1,2,3-Trichlorobenzene	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
1,2,4-Trichlorobenzene	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
1,2-Dichlorobenzene	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
1,2-Dichloroethane	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
1,2-Dichloropropane	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
1,3-Dichlorobenzene	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
1,4-Dichlorobenzene	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
2-Hexanone	<0.025		0.025		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Acetone	<0.025		0.025		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Benzene	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Bromodichloromethane	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Bromoform	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Bromomethane	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Carbon disulfide	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Carbon tetrachloride	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Chlorobenzene	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Chlorobromomethane	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Chloroethane	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Chloroform	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Chloromethane	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
cis-1,2-Dichloroethene	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
cis-1,3-Dichloropropene	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Dibromochloromethane	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Dichlorodifluoromethane	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Ethylbenzene	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Ethylene Dibromide	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Isopropylbenzene	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Methyl acetate	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Methyl Ethyl Ketone	<0.025		0.025		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
methyl isobutyl ketone	<0.025		0.025		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Methyl tert-butyl ether	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Methylene Chloride	<0.015		0.015		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Styrene	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Tetrachloroethene	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Toluene	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
trans-1,2-Dichloroethene	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
trans-1,3-Dichloropropene	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Trichloroethene	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Trichlorofluoromethane	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Vinyl chloride	<0.0050		0.0050		mg/Kg		01/28/20 06:49	01/28/20 08:51	1
Xylenes, Total	<0.010		0.010		mg/Kg		01/28/20 06:49	01/28/20 08:51	1

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

Lab Sample ID: MB 400-475647/1-A
Matrix: Solid
Analysis Batch: 475624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475647

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	*96*		*67 - 130*	*01/28/20 06:49*	*01/28/20 08:51*	*1*
Dibromofluoromethane	*87*		*77 - 127*	*01/28/20 06:49*	*01/28/20 08:51*	*1*
Toluene-d8 (Surr)	*95*		*76 - 127*	*01/28/20 06:49*	*01/28/20 08:51*	*1*

Lab Sample ID: LCS 400-475647/2-A
Matrix: Solid
Analysis Batch: 475624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 475647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.0500	0.0380		mg/Kg		76	63 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.0475		mg/Kg		95	60 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0395		mg/Kg		79	47 - 143
1,1,2-Trichloroethane	0.0500	0.0415		mg/Kg		83	65 - 130
1,1-Dichloroethane	0.0500	0.0442		mg/Kg		88	59 - 130
1,1-Dichloroethene	0.0500	0.0427		mg/Kg		85	55 - 137
1,2,3-Trichlorobenzene	0.0500	0.0528		mg/Kg		106	58 - 135
1,2,4-Trichlorobenzene	0.0500	0.0516		mg/Kg		103	56 - 138
1,2-Dibromo-3-Chloropropane	0.0500	0.0480		mg/Kg		96	49 - 130
1,2-Dichlorobenzene	0.0500	0.0486		mg/Kg		97	64 - 130
1,2-Dichloroethane	0.0500	0.0459		mg/Kg		92	62 - 130
1,2-Dichloropropane	0.0500	0.0444		mg/Kg		89	64 - 130
1,3-Dichlorobenzene	0.0500	0.0485		mg/Kg		97	66 - 130
1,4-Dichlorobenzene	0.0500	0.0473		mg/Kg		95	65 - 130
2-Hexanone	0.200	0.209		mg/Kg		105	57 - 131
Acetone	0.200	0.202		mg/Kg		101	48 - 160
Benzene	0.0500	0.0419		mg/Kg		84	65 - 130
Bromodichloromethane	0.0500	0.0387		mg/Kg		77	61 - 130
Bromoform	0.0500	0.0384		mg/Kg		77	52 - 136
Bromomethane	0.0500	0.0503		mg/Kg		101	12 - 160
Carbon disulfide	0.0500	0.0342		mg/Kg		68	46 - 141
Carbon tetrachloride	0.0500	0.0357		mg/Kg		71	60 - 130
Chlorobenzene	0.0500	0.0461		mg/Kg		92	70 - 130
Chlorobromomethane	0.0500	0.0389		mg/Kg		78	65 - 130
Chloroethane	0.0500	0.0567		mg/Kg		113	55 - 134
Chloroform	0.0500	0.0423		mg/Kg		85	62 - 130
Chloromethane	0.0500	0.0616		mg/Kg		123	49 - 136
cis-1,2-Dichloroethene	0.0500	0.0452		mg/Kg		90	53 - 135
cis-1,3-Dichloropropene	0.0500	0.0393		mg/Kg		79	61 - 130
Dibromochloromethane	0.0500	0.0352		mg/Kg		70	58 - 132
Dichlorodifluoromethane	0.0500	0.0628		mg/Kg		126	34 - 143
Ethylbenzene	0.0500	0.0449		mg/Kg		90	70 - 130
Ethylene Dibromide	0.0500	0.0439		mg/Kg		88	67 - 130
Isopropylbenzene	0.0500	0.0486		mg/Kg		97	70 - 130
Methyl acetate	0.100	0.0971		mg/Kg		97	49 - 139
Methyl Ethyl Ketone	0.200	0.187		mg/Kg		93	55 - 130
methyl isobutyl ketone	0.200	0.202		mg/Kg		101	58 - 130
Methyl tert-butyl ether	0.0500	0.0408		mg/Kg		82	63 - 130
Methylene Chloride	0.0500	0.0424		mg/Kg		85	57 - 132

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

Lab Sample ID: LCS 400-475647/2-A
Matrix: Solid
Analysis Batch: 475624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 475647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	0.0500	0.0451		mg/Kg		90	68 - 130
Tetrachloroethene	0.0500	0.0436		mg/Kg		87	67 - 130
Toluene	0.0500	0.0422		mg/Kg		84	70 - 130
trans-1,2-Dichloroethene	0.0500	0.0407		mg/Kg		81	58 - 134
trans-1,3-Dichloropropene	0.0500	0.0383		mg/Kg		77	60 - 130
Trichloroethene	0.0500	0.0434		mg/Kg		87	65 - 130
Trichlorofluoromethane	0.0500	0.0494		mg/Kg		99	61 - 136
Vinyl chloride	0.0500	0.0576		mg/Kg		115	52 - 132
Xylenes, Total	0.100	0.0900		mg/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*92*		*67 - 130*
Dibromofluoromethane	*92*		*77 - 127*
Toluene-d8 (Surr)	*93*		*76 - 127*

Lab Sample ID: 400-182916-1 MS
Matrix: Solid
Analysis Batch: 475624

Client Sample ID: B-1
Prep Type: Total/NA
Prep Batch: 475647

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<0.0051		0.0547	0.0354		mg/Kg	☼	65	41 - 130
1,1,2,2-Tetrachloroethane	<0.0051		0.0547	0.0421		mg/Kg	☼	77	10 - 149
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0051		0.0547	0.0364		mg/Kg	☼	66	32 - 146
1,1,2-Trichloroethane	<0.0051		0.0547	0.0364		mg/Kg	☼	67	37 - 130
1,1-Dichloroethane	<0.0051		0.0547	0.0425		mg/Kg	☼	78	41 - 130
1,1-Dichloroethene	<0.0051		0.0547	0.0390		mg/Kg	☼	71	39 - 138
1,2,3-Trichlorobenzene	<0.0051		0.0547	0.0226		mg/Kg	☼	41	10 - 146
1,2,4-Trichlorobenzene	<0.0051		0.0547	0.0228		mg/Kg	☼	42	10 - 141
1,2-Dibromo-3-Chloropropane	<0.0051		0.0547	0.0333		mg/Kg	☼	61	14 - 132
1,2-Dichlorobenzene	<0.0051		0.0547	0.0316		mg/Kg	☼	58	20 - 130
1,2-Dichloroethane	<0.0051		0.0547	0.0432		mg/Kg	☼	79	37 - 130
1,2-Dichloropropane	<0.0051		0.0547	0.0424		mg/Kg	☼	77	39 - 130
1,3-Dichlorobenzene	<0.0051		0.0547	0.0310		mg/Kg	☼	57	22 - 130
1,4-Dichlorobenzene	<0.0051		0.0547	0.0306		mg/Kg	☼	56	21 - 130
2-Hexanone	<0.025		0.219	0.169		mg/Kg	☼	77	20 - 142
Acetone	<0.025		0.219	0.218		mg/Kg	☼	99	10 - 150
Benzene	<0.0051		0.0547	0.0392		mg/Kg	☼	72	38 - 131
Bromodichloromethane	<0.0051		0.0547	0.0356		mg/Kg	☼	65	37 - 130
Bromoform	<0.0051		0.0547	0.0331		mg/Kg	☼	60	24 - 136
Bromomethane	<0.0051		0.0547	0.0533		mg/Kg	☼	97	10 - 150
Carbon disulfide	<0.0051		0.0547	0.0299		mg/Kg	☼	55	29 - 141
Carbon tetrachloride	<0.0051		0.0547	0.0324		mg/Kg	☼	59	36 - 134
Chlorobenzene	<0.0051		0.0547	0.0369		mg/Kg	☼	67	37 - 130
Chlorobromomethane	<0.0051		0.0547	0.0362		mg/Kg	☼	66	37 - 134
Chloroethane	<0.0051		0.0547	0.0593		mg/Kg	☼	108	36 - 139
Chloroform	<0.0051		0.0547	0.0397		mg/Kg	☼	73	39 - 130
Chloromethane	<0.0051	F1	0.0547	0.0628		mg/Kg	☼	115	35 - 136
cis-1,2-Dichloroethene	<0.0051		0.0547	0.0413		mg/Kg	☼	75	32 - 135

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

Lab Sample ID: 400-182916-1 MS
Matrix: Solid
Analysis Batch: 475624

Client Sample ID: B-1
Prep Type: Total/NA
Prep Batch: 475647

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	<0.0051		0.0547	0.0339		mg/Kg	☼	62	34 - 130
Dibromochloromethane	<0.0051		0.0547	0.0298		mg/Kg	☼	54	32 - 132
Dichlorodifluoromethane	<0.0051		0.0547	0.0620		mg/Kg	☼	113	21 - 146
Ethylbenzene	<0.0051		0.0547	0.0365		mg/Kg	☼	67	35 - 130
Ethylene Dibromide	<0.0051		0.0547	0.0369		mg/Kg	☼	67	35 - 130
Isopropylbenzene	<0.0051		0.0547	0.0347		mg/Kg	☼	63	31 - 132
Methyl acetate	<0.0051	F1	0.109	0.142		mg/Kg	☼	129	10 - 150
Methyl Ethyl Ketone	<0.025		0.219	0.160		mg/Kg	☼	73	19 - 139
methyl isobutyl ketone	<0.025		0.219	0.180		mg/Kg	☼	82	21 - 144
Methyl tert-butyl ether	<0.0051		0.0547	0.0381		mg/Kg	☼	70	34 - 132
Methylene Chloride	<0.015		0.0547	0.0410		mg/Kg	☼	75	36 - 132
Styrene	<0.0051		0.0547	0.0343		mg/Kg	☼	63	31 - 130
Tetrachloroethene	<0.0051		0.0547	0.0353		mg/Kg	☼	64	27 - 147
Toluene	<0.0051		0.0547	0.0369		mg/Kg	☼	67	42 - 130
trans-1,2-Dichloroethene	<0.0051		0.0547	0.0376		mg/Kg	☼	69	40 - 134
trans-1,3-Dichloropropene	<0.0051		0.0547	0.0311		mg/Kg	☼	57	31 - 130
Trichloroethene	<0.0051		0.0547	0.0434		mg/Kg	☼	73	34 - 144
Trichlorofluoromethane	<0.0051		0.0547	0.0511		mg/Kg	☼	93	41 - 143
Vinyl chloride	<0.0051		0.0547	0.0586		mg/Kg	☼	107	35 - 136
Xylenes, Total	<0.010		0.109	0.0714		mg/Kg	☼	65	35 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*92*		*67 - 130*
Dibromofluoromethane	*94*		*77 - 127*
Toluene-d8 (Surr)	*92*		*76 - 127*

Lab Sample ID: 400-182916-1 MSD
Matrix: Solid
Analysis Batch: 475624

Client Sample ID: B-1
Prep Type: Total/NA
Prep Batch: 475647

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<0.0051		0.0562	0.0429		mg/Kg	☼	76	41 - 130	19	40
1,1,2,2-Tetrachloroethane	<0.0051		0.0562	0.0548		mg/Kg	☼	98	10 - 149	26	44
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0051		0.0562	0.0437		mg/Kg	☼	78	32 - 146	18	58
1,1,2-Trichloroethane	<0.0051		0.0562	0.0467		mg/Kg	☼	83	37 - 130	25	33
1,1-Dichloroethane	<0.0051		0.0562	0.0520		mg/Kg	☼	93	41 - 130	20	35
1,1-Dichloroethene	<0.0051		0.0562	0.0475		mg/Kg	☼	85	39 - 138	20	37
1,2,3-Trichlorobenzene	<0.0051		0.0562	0.0308		mg/Kg	☼	55	10 - 146	31	47
1,2,4-Trichlorobenzene	<0.0051		0.0562	0.0316		mg/Kg	☼	56	10 - 141	32	53
1,2-Dibromo-3-Chloropropane	<0.0051		0.0562	0.0439		mg/Kg	☼	78	14 - 132	27	38
1,2-Dichlorobenzene	<0.0051		0.0562	0.0427		mg/Kg	☼	76	20 - 130	30	40
1,2-Dichloroethane	<0.0051		0.0562	0.0526		mg/Kg	☼	94	37 - 130	20	32
1,2-Dichloropropane	<0.0051		0.0562	0.0528		mg/Kg	☼	94	39 - 130	22	35
1,3-Dichlorobenzene	<0.0051		0.0562	0.0423		mg/Kg	☼	75	22 - 130	31	41
1,4-Dichlorobenzene	<0.0051		0.0562	0.0412		mg/Kg	☼	73	21 - 130	29	40
2-Hexanone	<0.025		0.225	0.215		mg/Kg	☼	96	20 - 142	24	37
Acetone	<0.025		0.225	0.284		mg/Kg	☼	126	10 - 150	26	38
Benzene	<0.0051		0.0562	0.0476		mg/Kg	☼	85	38 - 131	20	36

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

Lab Sample ID: 400-182916-1 MSD
Matrix: Solid
Analysis Batch: 475624

Client Sample ID: B-1
Prep Type: Total/NA
Prep Batch: 475647

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	<0.0051		0.0562	0.0435		mg/Kg	☼	77	37 - 130	20	34
Bromoform	<0.0051		0.0562	0.0427		mg/Kg	☼	76	24 - 136	25	34
Bromomethane	<0.0051		0.0562	0.0640		mg/Kg	☼	114	10 - 150	18	47
Carbon disulfide	<0.0051		0.0562	0.0366		mg/Kg	☼	65	29 - 141	20	39
Carbon tetrachloride	<0.0051		0.0562	0.0393		mg/Kg	☼	70	36 - 134	19	44
Chlorobenzene	<0.0051		0.0562	0.0476		mg/Kg	☼	85	37 - 130	25	37
Chlorobromomethane	<0.0051		0.0562	0.0443		mg/Kg	☼	79	37 - 134	20	38
Chloroethane	<0.0051		0.0562	0.0709		mg/Kg	☼	126	36 - 139	18	42
Chloroform	<0.0051		0.0562	0.0483		mg/Kg	☼	86	39 - 130	20	35
Chloromethane	<0.0051	F1	0.0562	0.0770	F1	mg/Kg	☼	137	35 - 136	20	41
cis-1,2-Dichloroethene	<0.0051		0.0562	0.0498		mg/Kg	☼	89	32 - 135	19	35
cis-1,3-Dichloropropene	<0.0051		0.0562	0.0430		mg/Kg	☼	77	34 - 130	24	35
Dibromochloromethane	<0.0051		0.0562	0.0375		mg/Kg	☼	67	32 - 132	23	34
Dichlorodifluoromethane	<0.0051		0.0562	0.0774		mg/Kg	☼	138	21 - 146	22	46
Ethylbenzene	<0.0051		0.0562	0.0469		mg/Kg	☼	83	35 - 130	25	46
Ethylene Dibromide	<0.0051		0.0562	0.0476		mg/Kg	☼	85	35 - 130	25	31
Isopropylbenzene	<0.0051		0.0562	0.0452		mg/Kg	☼	80	31 - 132	26	51
Methyl acetate	<0.0051	F1	0.112	0.179	F1	mg/Kg	☼	160	10 - 150	24	34
Methyl Ethyl Ketone	<0.025		0.225	0.194		mg/Kg	☼	86	19 - 139	19	41
methyl isobutyl ketone	<0.025		0.225	0.224		mg/Kg	☼	100	21 - 144	22	39
Methyl tert-butyl ether	<0.0051		0.0562	0.0467		mg/Kg	☼	83	34 - 132	20	31
Methylene Chloride	<0.015		0.0562	0.0493		mg/Kg	☼	88	36 - 132	18	38
Styrene	<0.0051		0.0562	0.0449		mg/Kg	☼	80	31 - 130	27	39
Tetrachloroethene	<0.0051		0.0562	0.0440		mg/Kg	☼	78	27 - 147	22	44
Toluene	<0.0051		0.0562	0.0479		mg/Kg	☼	85	42 - 130	26	37
trans-1,2-Dichloroethene	<0.0051		0.0562	0.0466		mg/Kg	☼	83	40 - 134	21	38
trans-1,3-Dichloropropene	<0.0051		0.0562	0.0401		mg/Kg	☼	71	31 - 130	25	34
Trichloroethene	<0.0051		0.0562	0.0531		mg/Kg	☼	88	34 - 144	20	42
Trichlorofluoromethane	<0.0051		0.0562	0.0603		mg/Kg	☼	107	41 - 143	16	42
Vinyl chloride	<0.0051		0.0562	0.0721		mg/Kg	☼	128	35 - 136	21	43
Xylenes, Total	<0.010		0.112	0.0936		mg/Kg	☼	83	35 - 130	27	39

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*92*		*67 - 130*
Dibromofluoromethane	*90*		*77 - 127*
Toluene-d8 (Surr)	*93*		*76 - 127*

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

Lab Sample ID: MB 400-475744/1-A
Matrix: Solid
Analysis Batch: 476105

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475744

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.33		0.33		mg/Kg		01/28/20 14:46	01/30/20 17:18	1
2-Methylnaphthalene	<0.33		0.33		mg/Kg		01/28/20 14:46	01/30/20 17:18	1
Acenaphthene	<0.33		0.33		mg/Kg		01/28/20 14:46	01/30/20 17:18	1
Acenaphthylene	<0.33		0.33		mg/Kg		01/28/20 14:46	01/30/20 17:18	1
Anthracene	<0.33		0.33		mg/Kg		01/28/20 14:46	01/30/20 17:18	1

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

Lab Sample ID: MB 400-475744/1-A
Matrix: Solid
Analysis Batch: 476105

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475744

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.33		0.33		mg/Kg		01/28/20 14:46	01/30/20 17:18	1
Benzo[a]pyrene	<0.33		0.33		mg/Kg		01/28/20 14:46	01/30/20 17:18	1
Benzo[b]fluoranthene	<0.33		0.33		mg/Kg		01/28/20 14:46	01/30/20 17:18	1
Benzo[g,h,i]perylene	<0.33		0.33		mg/Kg		01/28/20 14:46	01/30/20 17:18	1
Benzo[k]fluoranthene	<0.33		0.33		mg/Kg		01/28/20 14:46	01/30/20 17:18	1
Chrysene	<0.33		0.33		mg/Kg		01/28/20 14:46	01/30/20 17:18	1
Dibenz(a,h)anthracene	<0.33		0.33		mg/Kg		01/28/20 14:46	01/30/20 17:18	1
Fluoranthene	<0.33		0.33		mg/Kg		01/28/20 14:46	01/30/20 17:18	1
Fluorene	<0.33		0.33		mg/Kg		01/28/20 14:46	01/30/20 17:18	1
Indeno[1,2,3-cd]pyrene	<0.33		0.33		mg/Kg		01/28/20 14:46	01/30/20 17:18	1
Naphthalene	<0.33		0.33		mg/Kg		01/28/20 14:46	01/30/20 17:18	1
Phenanthrene	<0.33		0.33		mg/Kg		01/28/20 14:46	01/30/20 17:18	1
Pyrene	<0.33		0.33		mg/Kg		01/28/20 14:46	01/30/20 17:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*27 - 127*	*01/28/20 14:46*	*01/30/20 17:18*	*1*
Nitrobenzene-d5 (Surr)	*55*		*15 - 136*	*01/28/20 14:46*	*01/30/20 17:18*	*1*
Terphenyl-d14 (Surr)	*74*		*24 - 146*	*01/28/20 14:46*	*01/30/20 17:18*	*1*

Lab Sample ID: LCS 400-475744/2-A
Matrix: Solid
Analysis Batch: 476105

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 475744

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	2.00	1.22		mg/Kg		61	46 - 120
2-Methylnaphthalene	2.00	1.20		mg/Kg		60	46 - 120
Acenaphthene	2.00	1.22		mg/Kg		61	57 - 120
Acenaphthylene	2.00	1.28		mg/Kg		64	59 - 120
Anthracene	2.00	1.33		mg/Kg		66	61 - 120
Benzo[a]anthracene	2.00	1.30		mg/Kg		65	61 - 120
Benzo[a]pyrene	2.00	1.33		mg/Kg		66	54 - 127
Benzo[b]fluoranthene	2.00	1.20		mg/Kg		60	35 - 146
Benzo[g,h,i]perylene	2.00	1.48		mg/Kg		74	36 - 150
Benzo[k]fluoranthene	2.00	1.38		mg/Kg		69	53 - 139
Chrysene	2.00	1.33		mg/Kg		66	60 - 120
Dibenz(a,h)anthracene	2.00	1.47		mg/Kg		74	39 - 150
Fluoranthene	2.00	1.40		mg/Kg		70	61 - 121
Fluorene	2.00	1.23		mg/Kg		61	60 - 120
Indeno[1,2,3-cd]pyrene	2.00	1.44		mg/Kg		72	40 - 150
Naphthalene	2.00	1.13		mg/Kg		56	51 - 120
Phenanthrene	2.00	1.28		mg/Kg		64	59 - 120
Pyrene	2.00	1.17		mg/Kg		58	53 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*60*		*27 - 127*
Nitrobenzene-d5 (Surr)	*62*		*15 - 136*
Terphenyl-d14 (Surr)	*70*		*24 - 146*

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

Lab Sample ID: 400-182956-E-1-F MS
Matrix: Solid
Analysis Batch: 476105

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 475744

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	<0.37		2.35	1.46		mg/Kg	☼	62	40 - 140
2-Methylnaphthalene	<0.37		2.35	1.49		mg/Kg	☼	63	40 - 140
Acenaphthene	<0.37		2.35	1.48		mg/Kg	☼	63	40 - 140
Acenaphthylene	<0.37		2.35	1.54		mg/Kg	☼	66	40 - 140
Anthracene	<0.37		2.35	1.64		mg/Kg	☼	70	40 - 140
Benzo[a]anthracene	<0.37		2.35	1.71		mg/Kg	☼	67	40 - 140
Benzo[a]pyrene	<0.37		2.35	1.77		mg/Kg	☼	69	40 - 140
Benzo[b]fluoranthene	<0.37		2.35	1.80		mg/Kg	☼	67	40 - 140
Benzo[g,h,i]perylene	<0.37		2.35	1.69		mg/Kg	☼	67	40 - 140
Benzo[k]fluoranthene	<0.37		2.35	1.69		mg/Kg	☼	67	40 - 140
Chrysene	<0.37		2.35	1.81		mg/Kg	☼	69	40 - 140
Dibenz(a,h)anthracene	<0.37		2.35	1.75		mg/Kg	☼	72	40 - 140
Fluoranthene	<0.37		2.35	1.89		mg/Kg	☼	68	40 - 140
Fluorene	<0.37		2.35	1.53		mg/Kg	☼	65	40 - 140
Indeno[1,2,3-cd]pyrene	<0.37		2.35	1.74		mg/Kg	☼	70	40 - 140
Naphthalene	<0.37		2.35	1.36		mg/Kg	☼	58	40 - 140
Phenanthrene	<0.37		2.35	1.64		mg/Kg	☼	66	40 - 140
Pyrene	<0.37		2.35	1.65		mg/Kg	☼	62	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*62*		*27 - 127*
Nitrobenzene-d5 (Surr)	*66*		*15 - 136*
Terphenyl-d14 (Surr)	*77*		*24 - 146*

Lab Sample ID: 400-182956-E-1-G MSD
Matrix: Solid
Analysis Batch: 476105

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 475744

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.37		2.27	1.45		mg/Kg	☼	64	40 - 140	1	30
2-Methylnaphthalene	<0.37		2.27	1.40		mg/Kg	☼	62	40 - 140	6	30
Acenaphthene	<0.37		2.27	1.41		mg/Kg	☼	62	40 - 140	4	30
Acenaphthylene	<0.37		2.27	1.48		mg/Kg	☼	65	40 - 140	4	30
Anthracene	<0.37		2.27	1.58		mg/Kg	☼	69	40 - 140	4	30
Benzo[a]anthracene	<0.37		2.27	1.59		mg/Kg	☼	63	40 - 140	8	30
Benzo[a]pyrene	<0.37		2.27	1.67		mg/Kg	☼	67	40 - 140	6	30
Benzo[b]fluoranthene	<0.37		2.27	1.64		mg/Kg	☼	62	40 - 140	9	30
Benzo[g,h,i]perylene	<0.37		2.27	1.45		mg/Kg	☼	58	40 - 140	16	30
Benzo[k]fluoranthene	<0.37		2.27	1.70		mg/Kg	☼	70	40 - 140	0	30
Chrysene	<0.37		2.27	1.67		mg/Kg	☼	65	40 - 140	8	30
Dibenz(a,h)anthracene	<0.37		2.27	1.59		mg/Kg	☼	67	40 - 140	10	30
Fluoranthene	<0.37		2.27	1.77		mg/Kg	☼	66	40 - 140	7	30
Fluorene	<0.37		2.27	1.43		mg/Kg	☼	63	40 - 140	7	30
Indeno[1,2,3-cd]pyrene	<0.37		2.27	1.53		mg/Kg	☼	63	40 - 140	13	30
Naphthalene	<0.37		2.27	1.32		mg/Kg	☼	58	40 - 140	3	30
Phenanthrene	<0.37		2.27	1.56		mg/Kg	☼	64	40 - 140	5	30
Pyrene	<0.37		2.27	1.53		mg/Kg	☼	59	40 - 140	7	30

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

Lab Sample ID: 400-182956-E-1-G MSD
Matrix: Solid
Analysis Batch: 476105

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 475744

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*62*		*27 - 127*
Nitrobenzene-d5 (Surr)	*61*		*15 - 136*
Terphenyl-d14 (Surr)	*72*		*24 - 146*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 400-475902/2-A
Matrix: Solid
Analysis Batch: 475878

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475902

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<0.10		0.10		mg/Kg		01/29/20 11:16	01/29/20 12:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*102*		*65 - 125*	*01/29/20 11:16*	*01/29/20 12:18*	*1*

Lab Sample ID: LCS 400-475902/1-A
Matrix: Solid
Analysis Batch: 475878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 475902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	1.00	0.970		mg/Kg		97	62 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*101*		*65 - 125*

Lab Sample ID: 400-182916-1 MS
Matrix: Solid
Analysis Batch: 475878

Client Sample ID: B-1
Prep Type: Total/NA
Prep Batch: 475902

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	<0.10		1.05	0.818		mg/Kg	☼	78	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*100*		*65 - 125*

Lab Sample ID: 400-182916-1 MSD
Matrix: Solid
Analysis Batch: 475878

Client Sample ID: B-1
Prep Type: Total/NA
Prep Batch: 475902

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	<0.10		1.07	0.866		mg/Kg	☼	81	10 - 150	6	32

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: 400-182916-1 MSD
Matrix: Solid
Analysis Batch: 475878

Client Sample ID: B-1
Prep Type: Total/NA
Prep Batch: 475902

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*99*		*65 - 125*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 400-476417/1-A
Matrix: Solid
Analysis Batch: 476788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 476417

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<5.0		5.0		mg/Kg		02/03/20 10:40	02/05/20 19:49	1
Oil Range Organics (C28-C35)	<5.0		5.0		mg/Kg		02/03/20 10:40	02/05/20 19:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*78*		*27 - 151*	*02/03/20 10:40*	*02/05/20 19:49*	*1*

Lab Sample ID: LCS 400-476417/2-A
Matrix: Solid
Analysis Batch: 476788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 476417

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			284	210		mg/Kg		74	63 - 153		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*86*		*27 - 151*

Lab Sample ID: 400-182916-1 MS
Matrix: Solid
Analysis Batch: 476788

Client Sample ID: B-1
Prep Type: Total/NA
Prep Batch: 476417

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	<5.6		312	252		mg/Kg	☼	81	62 - 204		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*91*		*27 - 151*

Lab Sample ID: 400-182916-1 MSD
Matrix: Solid
Analysis Batch: 476788

Client Sample ID: B-1
Prep Type: Total/NA
Prep Batch: 476417

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	<5.6		312	226		mg/Kg	☼	72	62 - 204	11	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*80*		*27 - 151*

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

Lab Sample ID: MB 400-475548/1-A
Matrix: Solid
Analysis Batch: 475921

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		01/27/20 13:19	01/29/20 18:06	1
PCB-1221	<0.017		0.017		mg/Kg		01/27/20 13:19	01/29/20 18:06	1
PCB-1232	<0.017		0.017		mg/Kg		01/27/20 13:19	01/29/20 18:06	1
PCB-1242	<0.017		0.017		mg/Kg		01/27/20 13:19	01/29/20 18:06	1
PCB-1248	<0.017		0.017		mg/Kg		01/27/20 13:19	01/29/20 18:06	1
PCB-1254	<0.017		0.017		mg/Kg		01/27/20 13:19	01/29/20 18:06	1
PCB-1260	<0.017		0.017		mg/Kg		01/27/20 13:19	01/29/20 18:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*26 - 129*	*01/27/20 13:19*	*01/29/20 18:06*	*1*
Tetrachloro-m-xylene	*95*		*31 - 122*	*01/27/20 13:19*	*01/29/20 18:06*	*1*

Lab Sample ID: LCS 400-475548/14-A
Matrix: Solid
Analysis Batch: 475921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 475548

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.336	0.158		mg/Kg		47	17 - 156		
PCB-1260			0.335	0.215		mg/Kg		64	27 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*91*		*26 - 129*
Tetrachloro-m-xylene	*54*		*31 - 122*

Lab Sample ID: LCSD 400-475548/15-A
Matrix: Solid
Analysis Batch: 475921

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 475548

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			0.336	0.163		mg/Kg		48	17 - 156	3	30
PCB-1260			0.335	0.218		mg/Kg		65	27 - 133	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*103*		*26 - 129*
Tetrachloro-m-xylene	*57*		*31 - 122*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 400-475731/1-A
Matrix: Solid
Analysis Batch: 476178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475731

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<1.0		1.0		mg/Kg		01/28/20 13:59	01/30/20 12:19	1

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

Lab Sample ID: LCS 400-475731/2-A
Matrix: Solid
Analysis Batch: 476178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 475731

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			99.3	99.0		mg/Kg		100	80 - 120		

Lab Sample ID: 400-182916-3 MS
Matrix: Solid
Analysis Batch: 476178

Client Sample ID: B-6
Prep Type: Total/NA
Prep Batch: 475731

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	19		96.8	112		mg/Kg	☼	96	75 - 125		

Lab Sample ID: 400-182916-3 MSD
Matrix: Solid
Analysis Batch: 476178

Client Sample ID: B-6
Prep Type: Total/NA
Prep Batch: 475731

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	19		96.6	110		mg/Kg	☼	94	75 - 125	2	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 400-475506/14-A
Matrix: Solid
Analysis Batch: 476106

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475506

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.012		0.012		mg/Kg		01/30/20 08:30	01/30/20 12:04	1

Lab Sample ID: LCS 400-475506/15-A
Matrix: Solid
Analysis Batch: 476106

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 475506

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.0629	0.0638		mg/Kg		101	80 - 120		

Lab Sample ID: 400-183050-E-1-B MS
Matrix: Solid
Analysis Batch: 476106

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 475506

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	<0.014		0.148	0.156		mg/Kg	☼	106	80 - 120		

Lab Sample ID: 400-183050-E-1-C MSD
Matrix: Solid
Analysis Batch: 476106

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 475506

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.014		0.148	0.147		mg/Kg	☼	99	80 - 120	6	20

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Method: Moisture - Percent Moisture

Lab Sample ID: 400-182916-12 DU
Matrix: Solid
Analysis Batch: 475425

Client Sample ID: B-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	12.2			7.0	F3	%				54	10

Lab Sample ID: 400-182945-A-3 DU
Matrix: Solid
Analysis Batch: 475504

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	40.8			34.8	F3	%				16	10

QC Association Summary

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

GC/MS VOA

Analysis Batch: 475624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-1	B-1	Total/NA	Solid	8260B	475647
400-182916-2	B-5	Total/NA	Solid	8260B	475647
400-182916-3	B-6	Total/NA	Solid	8260B	475647
400-182916-4	B-7	Total/NA	Solid	8260B	475647
400-182916-5	B-8	Total/NA	Solid	8260B	475647
400-182916-6	B-9	Total/NA	Solid	8260B	475647
400-182916-7	B-10	Total/NA	Solid	8260B	475647
400-182916-8	B-11	Total/NA	Solid	8260B	475647
400-182916-9	B-12	Total/NA	Solid	8260B	475647
400-182916-10	B-13	Total/NA	Solid	8260B	475647
400-182916-11	B-14	Total/NA	Solid	8260B	475647
400-182916-12	B-15	Total/NA	Solid	8260B	475647
400-182916-13	B-16	Total/NA	Solid	8260B	475647
400-182916-14	B-2	Total/NA	Solid	8260B	475647
400-182916-15	B-3	Total/NA	Solid	8260B	475647
400-182916-16	B-4	Total/NA	Solid	8260B	475647
MB 400-475647/1-A	Method Blank	Total/NA	Solid	8260B	475647
LCS 400-475647/2-A	Lab Control Sample	Total/NA	Solid	8260B	475647
400-182916-1 MS	B-1	Total/NA	Solid	8260B	475647
400-182916-1 MSD	B-1	Total/NA	Solid	8260B	475647

Prep Batch: 475647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-1	B-1	Total/NA	Solid	5035	
400-182916-2	B-5	Total/NA	Solid	5035	
400-182916-3	B-6	Total/NA	Solid	5035	
400-182916-4	B-7	Total/NA	Solid	5035	
400-182916-5	B-8	Total/NA	Solid	5035	
400-182916-6	B-9	Total/NA	Solid	5035	
400-182916-7	B-10	Total/NA	Solid	5035	
400-182916-8	B-11	Total/NA	Solid	5035	
400-182916-9	B-12	Total/NA	Solid	5035	
400-182916-10	B-13	Total/NA	Solid	5035	
400-182916-11	B-14	Total/NA	Solid	5035	
400-182916-12	B-15	Total/NA	Solid	5035	
400-182916-13	B-16	Total/NA	Solid	5035	
400-182916-14	B-2	Total/NA	Solid	5035	
400-182916-15	B-3	Total/NA	Solid	5035	
400-182916-16	B-4	Total/NA	Solid	5035	
MB 400-475647/1-A	Method Blank	Total/NA	Solid	5035	
LCS 400-475647/2-A	Lab Control Sample	Total/NA	Solid	5035	
400-182916-1 MS	B-1	Total/NA	Solid	5035	
400-182916-1 MSD	B-1	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 475744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-15	B-3	Total/NA	Solid	3546	
400-182916-16	B-4	Total/NA	Solid	3546	
MB 400-475744/1-A	Method Blank	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 475744 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-475744/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-182956-E-1-F MS	Matrix Spike	Total/NA	Solid	3546	
400-182956-E-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 476105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-15	B-3	Total/NA	Solid	8270D	475744
400-182916-16	B-4	Total/NA	Solid	8270D	475744
MB 400-475744/1-A	Method Blank	Total/NA	Solid	8270D	475744
LCS 400-475744/2-A	Lab Control Sample	Total/NA	Solid	8270D	475744
400-182956-E-1-F MS	Matrix Spike	Total/NA	Solid	8270D	475744
400-182956-E-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	475744

GC VOA

Analysis Batch: 475878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-1	B-1	Total/NA	Solid	8015C	475902
400-182916-2	B-5	Total/NA	Solid	8015C	475902
400-182916-3	B-6	Total/NA	Solid	8015C	475902
400-182916-4	B-7	Total/NA	Solid	8015C	475902
400-182916-5	B-8	Total/NA	Solid	8015C	475902
400-182916-6	B-9	Total/NA	Solid	8015C	475902
400-182916-7	B-10	Total/NA	Solid	8015C	475902
400-182916-8	B-11	Total/NA	Solid	8015C	475902
400-182916-9	B-12	Total/NA	Solid	8015C	475902
400-182916-10	B-13	Total/NA	Solid	8015C	475902
400-182916-11	B-14	Total/NA	Solid	8015C	475902
400-182916-12	B-15	Total/NA	Solid	8015C	475902
400-182916-13	B-16	Total/NA	Solid	8015C	475902
400-182916-14	B-2	Total/NA	Solid	8015C	475902
400-182916-15	B-3	Total/NA	Solid	8015C	475902
400-182916-16	B-4	Total/NA	Solid	8015C	475902
MB 400-475902/2-A	Method Blank	Total/NA	Solid	8015C	475902
LCS 400-475902/1-A	Lab Control Sample	Total/NA	Solid	8015C	475902
400-182916-1 MS	B-1	Total/NA	Solid	8015C	475902
400-182916-1 MSD	B-1	Total/NA	Solid	8015C	475902

Prep Batch: 475902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-1	B-1	Total/NA	Solid	5035	
400-182916-2	B-5	Total/NA	Solid	5035	
400-182916-3	B-6	Total/NA	Solid	5035	
400-182916-4	B-7	Total/NA	Solid	5035	
400-182916-5	B-8	Total/NA	Solid	5035	
400-182916-6	B-9	Total/NA	Solid	5035	
400-182916-7	B-10	Total/NA	Solid	5035	
400-182916-8	B-11	Total/NA	Solid	5035	
400-182916-9	B-12	Total/NA	Solid	5035	
400-182916-10	B-13	Total/NA	Solid	5035	
400-182916-11	B-14	Total/NA	Solid	5035	

GC VOA (Continued)

Prep Batch: 475902 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-12	B-15	Total/NA	Solid	5035	
400-182916-13	B-16	Total/NA	Solid	5035	
400-182916-14	B-2	Total/NA	Solid	5035	
400-182916-15	B-3	Total/NA	Solid	5035	
400-182916-16	B-4	Total/NA	Solid	5035	
MB 400-475902/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-475902/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-182916-1 MS	B-1	Total/NA	Solid	5035	
400-182916-1 MSD	B-1	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 475548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-14	B-2	Total/NA	Solid	3546	
400-182916-15	B-3	Total/NA	Solid	3546	
400-182916-16	B-4	Total/NA	Solid	3546	
MB 400-475548/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-475548/14-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 400-475548/15-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 475921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-14	B-2	Total/NA	Solid	8082A	475548
400-182916-15	B-3	Total/NA	Solid	8082A	475548
400-182916-16	B-4	Total/NA	Solid	8082A	475548
MB 400-475548/1-A	Method Blank	Total/NA	Solid	8082A	475548
LCS 400-475548/14-A	Lab Control Sample	Total/NA	Solid	8082A	475548
LCSD 400-475548/15-A	Lab Control Sample Dup	Total/NA	Solid	8082A	475548

Prep Batch: 476417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-1	B-1	Total/NA	Solid	3546	
400-182916-2	B-5	Total/NA	Solid	3546	
400-182916-3	B-6	Total/NA	Solid	3546	
400-182916-4	B-7	Total/NA	Solid	3546	
400-182916-5	B-8	Total/NA	Solid	3546	
400-182916-6	B-9	Total/NA	Solid	3546	
400-182916-7	B-10	Total/NA	Solid	3546	
400-182916-8	B-11	Total/NA	Solid	3546	
400-182916-9	B-12	Total/NA	Solid	3546	
400-182916-10	B-13	Total/NA	Solid	3546	
400-182916-11	B-14	Total/NA	Solid	3546	
400-182916-12	B-15	Total/NA	Solid	3546	
400-182916-13	B-16	Total/NA	Solid	3546	
400-182916-14	B-2	Total/NA	Solid	3546	
400-182916-15	B-3	Total/NA	Solid	3546	
400-182916-16	B-4	Total/NA	Solid	3546	
MB 400-476417/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-476417/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-182916-1 MS	B-1	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 476417 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-1 MSD	B-1	Total/NA	Solid	3546	

Analysis Batch: 476788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-1	B-1	Total/NA	Solid	8015C	476417
400-182916-2	B-5	Total/NA	Solid	8015C	476417
400-182916-3	B-6	Total/NA	Solid	8015C	476417
400-182916-4	B-7	Total/NA	Solid	8015C	476417
400-182916-5	B-8	Total/NA	Solid	8015C	476417
400-182916-6	B-9	Total/NA	Solid	8015C	476417
400-182916-7	B-10	Total/NA	Solid	8015C	476417
400-182916-8	B-11	Total/NA	Solid	8015C	476417
400-182916-9	B-12	Total/NA	Solid	8015C	476417
400-182916-10	B-13	Total/NA	Solid	8015C	476417
400-182916-11	B-14	Total/NA	Solid	8015C	476417
400-182916-12	B-15	Total/NA	Solid	8015C	476417
400-182916-13	B-16	Total/NA	Solid	8015C	476417
400-182916-14	B-2	Total/NA	Solid	8015C	476417
400-182916-15	B-3	Total/NA	Solid	8015C	476417
400-182916-16	B-4	Total/NA	Solid	8015C	476417
MB 400-476417/1-A	Method Blank	Total/NA	Solid	8015C	476417
LCS 400-476417/2-A	Lab Control Sample	Total/NA	Solid	8015C	476417
400-182916-1 MS	B-1	Total/NA	Solid	8015C	476417
400-182916-1 MSD	B-1	Total/NA	Solid	8015C	476417

Metals

Prep Batch: 475506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-1	B-1	Total/NA	Solid	7471B	
400-182916-2	B-5	Total/NA	Solid	7471B	
400-182916-3	B-6	Total/NA	Solid	7471B	
400-182916-4	B-7	Total/NA	Solid	7471B	
400-182916-5	B-8	Total/NA	Solid	7471B	
400-182916-6	B-9	Total/NA	Solid	7471B	
400-182916-7	B-10	Total/NA	Solid	7471B	
400-182916-8	B-11	Total/NA	Solid	7471B	
400-182916-9	B-12	Total/NA	Solid	7471B	
400-182916-10	B-13	Total/NA	Solid	7471B	
400-182916-11	B-14	Total/NA	Solid	7471B	
400-182916-12	B-15	Total/NA	Solid	7471B	
400-182916-13	B-16	Total/NA	Solid	7471B	
400-182916-14	B-2	Total/NA	Solid	7471B	
MB 400-475506/14-A	Method Blank	Total/NA	Solid	7471B	
LCS 400-475506/15-A	Lab Control Sample	Total/NA	Solid	7471B	
400-183050-E-1-B MS	Matrix Spike	Total/NA	Solid	7471B	
400-183050-E-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	

Prep Batch: 475731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-1	B-1	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 475731 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-2	B-5	Total/NA	Solid	3050B	
400-182916-3	B-6	Total/NA	Solid	3050B	
400-182916-4	B-7	Total/NA	Solid	3050B	
400-182916-5	B-8	Total/NA	Solid	3050B	
400-182916-6	B-9	Total/NA	Solid	3050B	
400-182916-7	B-10	Total/NA	Solid	3050B	
400-182916-8	B-11	Total/NA	Solid	3050B	
400-182916-9	B-12	Total/NA	Solid	3050B	
400-182916-10	B-13	Total/NA	Solid	3050B	
400-182916-11	B-14	Total/NA	Solid	3050B	
400-182916-12	B-15	Total/NA	Solid	3050B	
400-182916-13	B-16	Total/NA	Solid	3050B	
400-182916-14	B-2	Total/NA	Solid	3050B	
MB 400-475731/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 400-475731/2-A	Lab Control Sample	Total/NA	Solid	3050B	
400-182916-3 MS	B-6	Total/NA	Solid	3050B	
400-182916-3 MSD	B-6	Total/NA	Solid	3050B	

Analysis Batch: 476106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-1	B-1	Total/NA	Solid	7471B	475506
400-182916-2	B-5	Total/NA	Solid	7471B	475506
400-182916-3	B-6	Total/NA	Solid	7471B	475506
400-182916-4	B-7	Total/NA	Solid	7471B	475506
400-182916-5	B-8	Total/NA	Solid	7471B	475506
400-182916-6	B-9	Total/NA	Solid	7471B	475506
400-182916-7	B-10	Total/NA	Solid	7471B	475506
400-182916-8	B-11	Total/NA	Solid	7471B	475506
400-182916-9	B-12	Total/NA	Solid	7471B	475506
400-182916-10	B-13	Total/NA	Solid	7471B	475506
400-182916-11	B-14	Total/NA	Solid	7471B	475506
400-182916-12	B-15	Total/NA	Solid	7471B	475506
400-182916-13	B-16	Total/NA	Solid	7471B	475506
400-182916-14	B-2	Total/NA	Solid	7471B	475506
MB 400-475506/14-A	Method Blank	Total/NA	Solid	7471B	475506
LCS 400-475506/15-A	Lab Control Sample	Total/NA	Solid	7471B	475506
400-183050-E-1-B MS	Matrix Spike	Total/NA	Solid	7471B	475506
400-183050-E-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	475506

Analysis Batch: 476178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-1	B-1	Total/NA	Solid	6010C	475731
400-182916-2	B-5	Total/NA	Solid	6010C	475731
400-182916-3	B-6	Total/NA	Solid	6010C	475731
400-182916-4	B-7	Total/NA	Solid	6010C	475731
400-182916-5	B-8	Total/NA	Solid	6010C	475731
400-182916-6	B-9	Total/NA	Solid	6010C	475731
400-182916-7	B-10	Total/NA	Solid	6010C	475731
400-182916-8	B-11	Total/NA	Solid	6010C	475731
400-182916-9	B-12	Total/NA	Solid	6010C	475731
400-182916-10	B-13	Total/NA	Solid	6010C	475731

Metals (Continued)

Analysis Batch: 476178 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-11	B-14	Total/NA	Solid	6010C	475731
400-182916-12	B-15	Total/NA	Solid	6010C	475731
400-182916-13	B-16	Total/NA	Solid	6010C	475731
400-182916-14	B-2	Total/NA	Solid	6010C	475731
MB 400-475731/1-A	Method Blank	Total/NA	Solid	6010C	475731
LCS 400-475731/2-A	Lab Control Sample	Total/NA	Solid	6010C	475731
400-182916-3 MS	B-6	Total/NA	Solid	6010C	475731
400-182916-3 MSD	B-6	Total/NA	Solid	6010C	475731

General Chemistry

Analysis Batch: 475425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-1	B-1	Total/NA	Solid	Moisture	
400-182916-2	B-5	Total/NA	Solid	Moisture	
400-182916-3	B-6	Total/NA	Solid	Moisture	
400-182916-4	B-7	Total/NA	Solid	Moisture	
400-182916-5	B-8	Total/NA	Solid	Moisture	
400-182916-6	B-9	Total/NA	Solid	Moisture	
400-182916-7	B-10	Total/NA	Solid	Moisture	
400-182916-8	B-11	Total/NA	Solid	Moisture	
400-182916-9	B-12	Total/NA	Solid	Moisture	
400-182916-10	B-13	Total/NA	Solid	Moisture	
400-182916-11	B-14	Total/NA	Solid	Moisture	
400-182916-12	B-15	Total/NA	Solid	Moisture	
400-182953-A-3 MS	Matrix Spike	Total/NA	Solid	Moisture	
400-182953-A-3 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	
400-182916-12 DU	B-15	Total/NA	Solid	Moisture	

Analysis Batch: 475504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-182916-13	B-16	Total/NA	Solid	Moisture	
400-182916-14	B-2	Total/NA	Solid	Moisture	
400-182916-15	B-3	Total/NA	Solid	Moisture	
400-182916-16	B-4	Total/NA	Solid	Moisture	
400-182945-A-5 MS	Matrix Spike	Total/NA	Solid	Moisture	
400-182945-A-5 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	
400-182945-A-3 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-1
Date Collected: 01/21/20 09:00
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475425	01/25/20 12:21	BKG	TAL PEN

Client Sample ID: B-1
Date Collected: 01/21/20 09:00
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-1
Matrix: Solid
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			475647	01/28/20 06:49	RS	TAL PEN
Total/NA	Analysis	8260B		1	475624	01/28/20 09:13	RS	TAL PEN
Total/NA	Prep	5035			475902	01/29/20 11:16	AMG	TAL PEN
Total/NA	Analysis	8015C		1	475878	01/29/20 12:49	GRK	TAL PEN
Total/NA	Prep	3546			476417	02/03/20 10:40	KLR	TAL PEN
Total/NA	Analysis	8015C		1	476788	02/05/20 20:49	JAW	TAL PEN
Total/NA	Prep	3050B			475731	01/28/20 13:59	KWN	TAL PEN
Total/NA	Analysis	6010C		1	476178	01/30/20 12:45	GESP	TAL PEN
Total/NA	Prep	7471B			475506	01/30/20 08:30	JAP	TAL PEN
Total/NA	Analysis	7471B		1	476106	01/30/20 12:26	JAP	TAL PEN

Client Sample ID: B-5
Date Collected: 01/21/20 12:20
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475425	01/25/20 12:21	BKG	TAL PEN

Client Sample ID: B-5
Date Collected: 01/21/20 12:20
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-2
Matrix: Solid
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			475647	01/28/20 06:49	RS	TAL PEN
Total/NA	Analysis	8260B		1	475624	01/28/20 11:03	RS	TAL PEN
Total/NA	Prep	5035			475902	01/29/20 11:16	AMG	TAL PEN
Total/NA	Analysis	8015C		1	475878	01/29/20 14:23	GRK	TAL PEN
Total/NA	Prep	3546			476417	02/03/20 10:40	KLR	TAL PEN
Total/NA	Analysis	8015C		1	476788	02/05/20 21:01	JAW	TAL PEN
Total/NA	Prep	3050B			475731	01/28/20 13:59	KWN	TAL PEN
Total/NA	Analysis	6010C		1	476178	01/30/20 12:51	GESP	TAL PEN
Total/NA	Prep	7471B			475506	01/30/20 08:30	JAP	TAL PEN
Total/NA	Analysis	7471B		1	476106	01/30/20 12:28	JAP	TAL PEN

Lab Chronicle

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-6
Date Collected: 01/21/20 13:30
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475425	01/25/20 13:12	BKG	TAL PEN

Client Sample ID: B-6
Date Collected: 01/21/20 13:30
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-3
Matrix: Solid
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			475647	01/28/20 06:49	RS	TAL PEN
Total/NA	Analysis	8260B		1	475624	01/28/20 11:25	RS	TAL PEN
Total/NA	Prep	5035			475902	01/29/20 11:16	AMG	TAL PEN
Total/NA	Analysis	8015C		1	475878	01/29/20 14:55	GRK	TAL PEN
Total/NA	Prep	3546			476417	02/03/20 10:40	KLR	TAL PEN
Total/NA	Analysis	8015C		20	476788	02/05/20 21:13	JAW	TAL PEN
Total/NA	Prep	3050B			475731	01/28/20 13:59	KWN	TAL PEN
Total/NA	Analysis	6010C		1	476178	01/30/20 12:56	GESP	TAL PEN
Total/NA	Prep	7471B			475506	01/30/20 08:30	JAP	TAL PEN
Total/NA	Analysis	7471B		1	476106	01/30/20 12:30	JAP	TAL PEN

Client Sample ID: B-7
Date Collected: 01/21/20 14:40
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475425	01/25/20 13:12	BKG	TAL PEN

Client Sample ID: B-7
Date Collected: 01/21/20 14:40
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-4
Matrix: Solid
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			475647	01/28/20 06:49	RS	TAL PEN
Total/NA	Analysis	8260B		1	475624	01/28/20 11:47	RS	TAL PEN
Total/NA	Prep	5035			475902	01/29/20 11:16	AMG	TAL PEN
Total/NA	Analysis	8015C		1	475878	01/29/20 15:26	GRK	TAL PEN
Total/NA	Prep	3546			476417	02/03/20 10:40	KLR	TAL PEN
Total/NA	Analysis	8015C		2	476788	02/05/20 21:25	JAW	TAL PEN
Total/NA	Prep	3050B			475731	01/28/20 13:59	KWN	TAL PEN
Total/NA	Analysis	6010C		1	476178	01/30/20 13:16	GESP	TAL PEN
Total/NA	Prep	7471B			475506	01/30/20 08:30	JAP	TAL PEN
Total/NA	Analysis	7471B		1	476106	01/30/20 12:32	JAP	TAL PEN

Lab Chronicle

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-8
Date Collected: 01/21/20 15:20
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475425	01/25/20 13:12	BKG	TAL PEN

Client Sample ID: B-8
Date Collected: 01/21/20 15:20
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-5
Matrix: Solid
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			475647	01/28/20 06:49	RS	TAL PEN
Total/NA	Analysis	8260B		1	475624	01/28/20 12:09	RS	TAL PEN
Total/NA	Prep	5035			475902	01/29/20 11:16	AMG	TAL PEN
Total/NA	Analysis	8015C		1	475878	01/29/20 15:57	GRK	TAL PEN
Total/NA	Prep	3546			476417	02/03/20 10:40	KLR	TAL PEN
Total/NA	Analysis	8015C		1	476788	02/05/20 21:36	JAW	TAL PEN
Total/NA	Prep	3050B			475731	01/28/20 13:59	KWN	TAL PEN
Total/NA	Analysis	6010C		1	476178	01/30/20 13:22	GESP	TAL PEN
Total/NA	Prep	7471B			475506	01/30/20 08:30	JAP	TAL PEN
Total/NA	Analysis	7471B		1	476106	01/30/20 12:34	JAP	TAL PEN

Client Sample ID: B-9
Date Collected: 01/21/20 15:30
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475425	01/25/20 13:12	BKG	TAL PEN

Client Sample ID: B-9
Date Collected: 01/21/20 15:30
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-6
Matrix: Solid
Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			475647	01/28/20 06:49	RS	TAL PEN
Total/NA	Analysis	8260B		1	475624	01/28/20 12:31	RS	TAL PEN
Total/NA	Prep	5035			475902	01/29/20 11:16	AMG	TAL PEN
Total/NA	Analysis	8015C		1	475878	01/29/20 16:29	GRK	TAL PEN
Total/NA	Prep	3546			476417	02/03/20 10:40	KLR	TAL PEN
Total/NA	Analysis	8015C		1	476788	02/05/20 21:48	JAW	TAL PEN
Total/NA	Prep	3050B			475731	01/28/20 13:59	KWN	TAL PEN
Total/NA	Analysis	6010C		1	476178	01/30/20 13:27	GESP	TAL PEN
Total/NA	Prep	7471B			475506	01/30/20 08:30	JAP	TAL PEN
Total/NA	Analysis	7471B		1	476106	01/30/20 12:36	JAP	TAL PEN

Client Sample ID: B-10
Date Collected: 01/21/20 14:43
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475425	01/25/20 13:12	BKG	TAL PEN

Client Sample ID: B-10
Date Collected: 01/21/20 14:43
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-7
Matrix: Solid
Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			475647	01/28/20 06:49	RS	TAL PEN
Total/NA	Analysis	8260B		1	475624	01/28/20 12:53	RS	TAL PEN
Total/NA	Prep	5035			475902	01/29/20 11:16	AMG	TAL PEN
Total/NA	Analysis	8015C		1	475878	01/29/20 17:31	GRK	TAL PEN
Total/NA	Prep	3546			476417	02/03/20 10:40	KLR	TAL PEN
Total/NA	Analysis	8015C		1	476788	02/05/20 22:12	JAW	TAL PEN
Total/NA	Prep	3050B			475731	01/28/20 13:59	KWN	TAL PEN
Total/NA	Analysis	6010C		1	476178	01/30/20 13:32	GESP	TAL PEN
Total/NA	Prep	7471B			475506	01/30/20 08:30	JAP	TAL PEN
Total/NA	Analysis	7471B		1	476106	01/30/20 12:38	JAP	TAL PEN

Client Sample ID: B-11
Date Collected: 01/22/20 11:45
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475425	01/25/20 13:12	BKG	TAL PEN

Client Sample ID: B-11
Date Collected: 01/22/20 11:45
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-8
Matrix: Solid
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			475647	01/28/20 06:49	RS	TAL PEN
Total/NA	Analysis	8260B		1	475624	01/28/20 13:15	RS	TAL PEN
Total/NA	Prep	5035			475902	01/29/20 11:16	AMG	TAL PEN
Total/NA	Analysis	8015C		1	475878	01/29/20 18:03	GRK	TAL PEN
Total/NA	Prep	3546			476417	02/03/20 10:40	KLR	TAL PEN
Total/NA	Analysis	8015C		1	476788	02/05/20 22:24	JAW	TAL PEN
Total/NA	Prep	3050B			475731	01/28/20 13:59	KWN	TAL PEN
Total/NA	Analysis	6010C		1	476178	01/30/20 13:53	GESP	TAL PEN
Total/NA	Prep	7471B			475506	01/30/20 08:30	JAP	TAL PEN
Total/NA	Analysis	7471B		1	476106	01/30/20 12:39	JAP	TAL PEN

Lab Chronicle

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-12
Date Collected: 01/22/20 11:00
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475425	01/25/20 13:12	BKG	TAL PEN

Client Sample ID: B-12
Date Collected: 01/22/20 11:00
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-9
Matrix: Solid
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			475647	01/28/20 06:49	RS	TAL PEN
Total/NA	Analysis	8260B		1	475624	01/28/20 13:37	RS	TAL PEN
Total/NA	Prep	5035			475902	01/29/20 11:16	AMG	TAL PEN
Total/NA	Analysis	8015C		1	475878	01/29/20 18:34	GRK	TAL PEN
Total/NA	Prep	3546			476417	02/03/20 10:40	KLR	TAL PEN
Total/NA	Analysis	8015C		1	476788	02/05/20 22:35	JAW	TAL PEN
Total/NA	Prep	3050B			475731	01/28/20 13:59	KWN	TAL PEN
Total/NA	Analysis	6010C		1	476178	01/30/20 13:58	GESP	TAL PEN
Total/NA	Prep	7471B			475506	01/30/20 08:30	JAP	TAL PEN
Total/NA	Analysis	7471B		1	476106	01/30/20 12:41	JAP	TAL PEN

Client Sample ID: B-13
Date Collected: 01/22/20 09:05
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475425	01/25/20 13:12	BKG	TAL PEN

Client Sample ID: B-13
Date Collected: 01/22/20 09:05
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-10
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			475647	01/28/20 06:49	RS	TAL PEN
Total/NA	Analysis	8260B		1	475624	01/28/20 13:59	RS	TAL PEN
Total/NA	Prep	5035			475902	01/29/20 11:16	AMG	TAL PEN
Total/NA	Analysis	8015C		1	475878	01/29/20 19:05	GRK	TAL PEN
Total/NA	Prep	3546			476417	02/03/20 10:40	KLR	TAL PEN
Total/NA	Analysis	8015C		1	476788	02/05/20 22:47	JAW	TAL PEN
Total/NA	Prep	3050B			475731	01/28/20 13:59	KWN	TAL PEN
Total/NA	Analysis	6010C		1	476178	01/30/20 14:03	GESP	TAL PEN
Total/NA	Prep	7471B			475506	01/30/20 08:30	JAP	TAL PEN
Total/NA	Analysis	7471B		1	476106	01/30/20 12:43	JAP	TAL PEN

Lab Chronicle

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-14
Date Collected: 01/22/20 10:00
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475425	01/25/20 13:12	BKG	TAL PEN

Client Sample ID: B-14
Date Collected: 01/22/20 10:00
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-11
Matrix: Solid
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			475647	01/28/20 06:49	RS	TAL PEN
Total/NA	Analysis	8260B		1	475624	01/28/20 14:21	RS	TAL PEN
Total/NA	Prep	5035			475902	01/29/20 11:16	AMG	TAL PEN
Total/NA	Analysis	8015C		1	475878	01/29/20 19:37	GRK	TAL PEN
Total/NA	Prep	3546			476417	02/03/20 10:40	KLR	TAL PEN
Total/NA	Analysis	8015C		1	476788	02/05/20 22:59	JAW	TAL PEN
Total/NA	Prep	3050B			475731	01/28/20 13:59	KWN	TAL PEN
Total/NA	Analysis	6010C		1	476178	01/30/20 14:09	GESP	TAL PEN
Total/NA	Prep	7471B			475506	01/30/20 08:30	JAP	TAL PEN
Total/NA	Analysis	7471B		1	476106	01/30/20 12:57	JAP	TAL PEN

Client Sample ID: B-15
Date Collected: 01/22/20 13:30
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475425	01/25/20 13:12	BKG	TAL PEN

Client Sample ID: B-15
Date Collected: 01/22/20 13:30
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-12
Matrix: Solid
Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			475647	01/28/20 06:49	RS	TAL PEN
Total/NA	Analysis	8260B		1	475624	01/28/20 14:43	RS	TAL PEN
Total/NA	Prep	5035			475902	01/29/20 11:16	AMG	TAL PEN
Total/NA	Analysis	8015C		1	475878	01/29/20 20:08	GRK	TAL PEN
Total/NA	Prep	3546			476417	02/03/20 10:40	KLR	TAL PEN
Total/NA	Analysis	8015C		1	476788	02/05/20 23:11	JAW	TAL PEN
Total/NA	Prep	3050B			475731	01/28/20 13:59	KWN	TAL PEN
Total/NA	Analysis	6010C		1	476178	01/30/20 14:19	GESP	TAL PEN
Total/NA	Prep	7471B			475506	01/30/20 08:30	JAP	TAL PEN
Total/NA	Analysis	7471B		1	476106	01/30/20 12:59	JAP	TAL PEN

Lab Chronicle

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Client Sample ID: B-16
Date Collected: 01/22/20 12:30
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475504	01/27/20 10:30	BKG	TAL PEN

Client Sample ID: B-16
Date Collected: 01/22/20 12:30
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-13
Matrix: Solid
Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			475647	01/28/20 06:49	RS	TAL PEN
Total/NA	Analysis	8260B		1	475624	01/28/20 15:05	RS	TAL PEN
Total/NA	Prep	5035			475902	01/29/20 11:16	AMG	TAL PEN
Total/NA	Analysis	8015C		1	475878	01/29/20 20:39	GRK	TAL PEN
Total/NA	Prep	3546			476417	02/03/20 10:40	KLR	TAL PEN
Total/NA	Analysis	8015C		1	476788	02/05/20 23:22	JAW	TAL PEN
Total/NA	Prep	3050B			475731	01/28/20 13:59	KWN	TAL PEN
Total/NA	Analysis	6010C		1	476178	01/30/20 14:24	GESP	TAL PEN
Total/NA	Prep	7471B			475506	01/30/20 08:30	JAP	TAL PEN
Total/NA	Analysis	7471B		1	476106	01/30/20 13:01	JAP	TAL PEN

Client Sample ID: B-2
Date Collected: 01/22/20 15:20
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475504	01/27/20 10:30	BKG	TAL PEN

Client Sample ID: B-2
Date Collected: 01/22/20 15:20
Date Received: 01/23/20 09:21

Lab Sample ID: 400-182916-14
Matrix: Solid
Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			475647	01/28/20 06:49	RS	TAL PEN
Total/NA	Analysis	8260B		1	475624	01/28/20 15:27	RS	TAL PEN
Total/NA	Prep	5035			475902	01/29/20 11:16	AMG	TAL PEN
Total/NA	Analysis	8015C		1	475878	01/29/20 21:11	GRK	TAL PEN
Total/NA	Prep	3546			476417	02/03/20 10:40	KLR	TAL PEN
Total/NA	Analysis	8015C		1	476788	02/05/20 23:34	JAW	TAL PEN
Total/NA	Prep	3546			475548	01/27/20 13:19	SHB	TAL PEN
Total/NA	Analysis	8082A		5	475921	01/29/20 22:16	DS	TAL PEN
Total/NA	Prep	3050B			475731	01/28/20 13:59	KWN	TAL PEN
Total/NA	Analysis	6010C		1	476178	01/30/20 14:30	GESP	TAL PEN
Total/NA	Prep	7471B			475506	01/30/20 08:30	JAP	TAL PEN
Total/NA	Analysis	7471B		1	476106	01/30/20 13:03	JAP	TAL PEN

Lab Chronicle

Client: SCS Engineers
Job ID: 400-182916-1
Project/Site: St Paul Phase II

Client Sample ID: B-3
Lab Sample ID: 400-182916-15
Date Collected: 01/21/20 10:00
Matrix: Solid
Date Received: 01/23/20 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475504	01/27/20 10:30	BKG	TAL PEN

Client Sample ID: B-3
Lab Sample ID: 400-182916-15
Date Collected: 01/21/20 10:00
Matrix: Solid
Date Received: 01/23/20 09:21
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			475647	01/28/20 06:49	RS	TAL PEN
Total/NA	Analysis	8260B		1	475624	01/28/20 15:49	RS	TAL PEN
Total/NA	Prep	3546			475744	01/28/20 14:46	SHB	TAL PEN
Total/NA	Analysis	8270D		1	476105	01/31/20 01:51	VC1	TAL PEN
Total/NA	Prep	5035			475902	01/29/20 11:16	AMG	TAL PEN
Total/NA	Analysis	8015C		1	475878	01/29/20 21:42	GRK	TAL PEN
Total/NA	Prep	3546			476417	02/03/20 10:40	KLR	TAL PEN
Total/NA	Analysis	8015C		1	476788	02/05/20 23:46	JAW	TAL PEN
Total/NA	Prep	3546			475548	01/27/20 13:19	SHB	TAL PEN
Total/NA	Analysis	8082A		1	475921	01/29/20 22:41	DS	TAL PEN

Client Sample ID: B-4
Lab Sample ID: 400-182916-16
Date Collected: 01/21/20 11:00
Matrix: Solid
Date Received: 01/23/20 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475504	01/27/20 10:30	BKG	TAL PEN

Client Sample ID: B-4
Lab Sample ID: 400-182916-16
Date Collected: 01/21/20 11:00
Matrix: Solid
Date Received: 01/23/20 09:21
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			475647	01/28/20 06:49	RS	TAL PEN
Total/NA	Analysis	8260B		1	475624	01/28/20 16:11	RS	TAL PEN
Total/NA	Prep	3546			475744	01/28/20 14:46	SHB	TAL PEN
Total/NA	Analysis	8270D		1	476105	01/31/20 02:15	VC1	TAL PEN
Total/NA	Prep	5035			475902	01/29/20 11:16	AMG	TAL PEN
Total/NA	Analysis	8015C		1	475878	01/29/20 22:13	GRK	TAL PEN
Total/NA	Prep	3546			476417	02/03/20 10:40	KLR	TAL PEN
Total/NA	Analysis	8015C		1	476788	02/05/20 23:57	JAW	TAL PEN
Total/NA	Prep	3546			475548	01/27/20 13:19	SHB	TAL PEN
Total/NA	Analysis	8082A		1	475921	01/29/20 23:06	DS	TAL PEN

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Laboratory: Eurofins TestAmerica, Pensacola

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Virginia	NELAP	460166	06-14-20

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
6010C	3050B	Solid	Lead
7471B	7471B	Solid	Mercury
8015C	3546	Solid	Diesel Range Organics [C10-C28]
8015C	3546	Solid	Oil Range Organics (C28-C35)
8015C	5035	Solid	Gasoline Range Organics (GRO)-C6-C10
8082A	3546	Solid	PCB-1016
8082A	3546	Solid	PCB-1221
8082A	3546	Solid	PCB-1232
8082A	3546	Solid	PCB-1242
8082A	3546	Solid	PCB-1248
8082A	3546	Solid	PCB-1254
8082A	3546	Solid	PCB-1260
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	1,1,2-Trichloroethane
8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2,3-Trichlorobenzene
8260B	5035	Solid	1,2,4-Trichlorobenzene
8260B	5035	Solid	1,2-Dibromo-3-Chloropropane
8260B	5035	Solid	1,2-Dichlorobenzene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichlorobenzene
8260B	5035	Solid	1,4-Dichlorobenzene
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chlorobromomethane
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Dichlorodifluoromethane
8260B	5035	Solid	Ethylbenzene

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Virginia	NELAP	460166	06-14-20

8260B	5035	Solid	Ethylene Dibromide
8260B	5035	Solid	Isopropylbenzene
8260B	5035	Solid	Methyl acetate
8260B	5035	Solid	Methyl Ethyl Ketone
8260B	5035	Solid	methyl isobutyl ketone
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Trichlorofluoromethane
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3546	Solid	1-Methylnaphthalene
8270D	3546	Solid	2-Methylnaphthalene
8270D	3546	Solid	Acenaphthene
8270D	3546	Solid	Acenaphthylene
8270D	3546	Solid	Anthracene
8270D	3546	Solid	Benzo[a]anthracene
8270D	3546	Solid	Benzo[a]pyrene
8270D	3546	Solid	Benzo[b]fluoranthene
8270D	3546	Solid	Benzo[g,h,i]perylene
8270D	3546	Solid	Benzo[k]fluoranthene
8270D	3546	Solid	Chrysene
8270D	3546	Solid	Dibenz(a,h)anthracene
8270D	3546	Solid	Fluoranthene
8270D	3546	Solid	Fluorene
8270D	3546	Solid	Indeno[1,2,3-cd]pyrene
8270D	3546	Solid	Naphthalene
8270D	3546	Solid	Phenanthrene
8270D	3546	Solid	Pyrene
Moisture		Solid	Percent Moisture

Method Summary

Client: SCS Engineers
Project/Site: St Paul Phase II

Job ID: 400-182916-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL PEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL PEN
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PEN
6010C	Metals (ICP)	SW846	TAL PEN
7471B	Mercury (CVAA)	SW846	TAL PEN
Moisture	Percent Moisture	EPA	TAL PEN
3050B	Preparation, Metals	SW846	TAL PEN
3546	Microwave Extraction	SW846	TAL PEN
5035	Closed System Purge and Trap	SW846	TAL PEN
7471B	Preparation, Mercury	SW846	TAL PEN

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 PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing TestAmerica

400-182916 COC

Client Information	Sampler: BRIANNE APOLINAR	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-90969-33435.1
Client Contact: Alexis Holcomb	Phone: 561-207-1407	E-Mail: mark.swafford@testamericainc.com		Page: Page 1 of 2
Company: SCS Engineers				Job #:
Address: 2877 Guardian Lane Suite 1-F	Due Date Requested:			
City: Virginia Beach	TAT Requested (days):			
State, Zip: VA, 23452				
Phone:	PO #: Purchase Order Requested			
Email: AHolcomb@scsengineers.com	WO #:			
Project Name: St.Paul's Sampling	Project #: 40005152			
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)	8015C_DRO - DRO C10-C28	6010C, 7471B	8260B - TCL 8260 volatiles and GRO	8015C_GRO - GRO (C6-C10)	8015C_DRO, 8082A	8015C_DRO, 8082A, 8270D	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N		
B-1	1/21		G	Solid			X	X	X				3	
B-5	1/21	1220	G	Solid			X	X	X				3	
B-6	1/21	1330	G	Solid			X	X	X				3	
B-7	1/21	1440	G	Solid			X	X	X				3	
B-8	1/21	1520	G	Solid			X	X	X				3	
B-9	1/21	1530	G	Solid			X	X	X	X			3	
B-10	1/21	1443	G	Solid			X	X	X	X				
B-11			G	Solid										
B-12			G	Solid										
B-13				Solid										
B-14				Solid										

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:

	Date/Time	Company		Date/Time	Company
Relinquished by:	1/22 15:53	SCS	Received by:	1/22/20 1555	ETA
Relinquished by:	1/22/20 1600	ETA	Received by:	1/23/2020 921	TAPC
Relinquished by:			Received by:		

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Page 72 of 76

#202 Virginia Beach

3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: BRIANNE APOLINAR	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-90969-33435.1
Client Contact: Alexis Holcomb	Phone: 757-241-5264	E-Mail: mark.swafford@testamericainc.com		Page: Page 1 of 2
Company: SCS Engineers				Job #:
Address: 2877 Guardian Lane Suite 1-F	Due Date Requested:			
City: Virginia Beach	TAT Requested (days):			
State, Zip: VA, 23452				
Phone:	PO #: Purchase Order Requested			
Email: AHolcomb@scsengineers.com	WO #:			
Project Name: St.Paul's Sampling	Project #: 40005152			
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)	8015C_DRO - DRO C10-C28	6010C, 7471B	8260B - TCL 8260 volatiles and GRO	8015C_GRO - GRO (C6-C10)	8015C_DRO, 8082A	8015C_DRO, 8082A, 8270D	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	N	N	N	X	
B-1				Solid										
B-5				Solid										
B-6				Solid										
B-7				Solid										
B-8				Solid										
B-9				Solid										
B-10				Solid										
B-11	1/22	1145	G	Solid	Y	N	X	X	X				3	
B-12	1/22	1106		Solid	Y	N	X	X	X				3	
B-13	1/22	0905		Solid	Y	N	X	X	X				3	
B-14	1/22	1000	↓	Solid	Y	N	X	X	X				3	

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	[signature] 1553	1/22/20 1553	SCS	[signature]	1/23/20 1555	ETA
2	[signature]	1/22/20 1600	ETA	[signature]	1/23/2020 921	TAL-NSV
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Virginia Beach #202

3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Brianne Bollinger	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-90969-33435.2
Client Contact: Alexis Holcomb	Phone: 757-201-7264	E-Mail: mark.swafford@testamericainc.com		Page: Page 2 of 2
Company: SCS Engineers				Job #:

Address: 2877 Guardian Lane Suite 1-F	Due Date Requested:	Analysis Requested
City: Virginia Beach	TAT Requested (days):	
State, Zip: VA, 23452		
Phone:	PO #: Purchase Order Requested	
Email: AHolcomb@scsengineers.com	WO #:	
Project Name: St.Paul's Sampling	Project #: 40005152	
Site:	SSOW#:	

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)	8015C_DRO - DRO C10-C28	6010C, 7471B	8260B - TCL 8260 volatiles and GRO	8015C_GRO - GRO (C6-C10)	8015C_DRO, 8082A	8015C_DRO, 8082A, 8270D	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N		
B-15	1/22	1330	G	Solid			X	X	X				3	
B-16	1/22	1230	G	Solid			X	X	X				3	
B-2	1/22		G	Solid			X	X	X				3	
B-3				Solid										
B-4				Solid										

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:

	Date/Time	Company		Date/Time	Company
Relinquished by:	1/22/20 1553	SCS	Received by:	1/22/20 1555	ETA
Relinquished by:	1/22/20 1600	ETA	Received by:	1/23/2020 921	TAL
Relinquished by:			Received by:		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Virginia Beach #202

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: BELANNE ADOLINSE	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-90969-33435.2
Client Contact: Alexis Holcomb	Phone: 561-267-1407	E-Mail: mark.swafford@testamericainc.com		Page: Page 2 of 2
Company: SCS Engineers				Job #:
Address: 2877 Guardian Lane Suite 1-F	Due Date Requested:			
City: Virginia Beach	TAT Requested (days):			
State, Zip: VA, 23452				
Phone:	PO #: Purchase Order Requested			
Email: AHolcomb@scsengineers.com	WO #:			
Project Name: St.Paul's Sampling	Project #: 40005152			
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)	8015C_DRO - DRO C10-C28	6010C, 7471B	8260B - TCL 8260 volatiles and GRO	8015C_GRO - GRO (C6-C10)	8015C_DRO, 8082A	8015C_DRO, 8082A, 8270D	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N		
B-15				Solid										
B-16				Solid										
B-2				Solid										
B-3	1/21	1000	G	Solid				X	X			X	4	
B-4	1/21	1100	G	Solid				X	X			X	4	

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		1/22/20 1600	SCS		1/22/20 1555	ETA
2		1/22/20 1600	ETA		1/23/2020 921	TAL
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

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Virginia Beach #202

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 400-182916-1

Login Number: 182916
List Number: 1
Creator: Conrady, Hank W

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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°C 0.1°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-183283-1
Client Project/Site: St.Paul's

For:
SCS Engineers
2877 Guardian Lane
Suite 1-F
Virginia Beach, Virginia 23452

Attn: Alexis Holcomb

Mark Swafford

Authorized for release by:
2/12/2020 10:38:33 AM

Mark Swafford, Project Manager II
(850)471-6207
mark.swafford@testamericainc.com

Table of Contents

Definitions/Glossary

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

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
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 400-183283-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-183283-1

Comments
No additional comments.

Receipt
The samples were received on 1/30/2020 9:22 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.1º C and 0.2º C.

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

GC/MS Semi VOA
Method 8270D LL: The continuing calibration verification (CCV) associated with batch 400-477222 recovered outside acceptance criteria, low biased, for Dibenz(a,h)anthracene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D LL: The continuing calibration verification (CCV) associated with batch 400-477422 recovered outside acceptance criteria, low biased, for Benzo[g,h,i]perylene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

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

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

GC Semi VOA
Method 8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (LCS 400-476390/2-A). These results have been reported and qualified.

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 (MS/MSD) associated with preparation batch 400-476480.

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 400-476390.

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 400-476444.

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 400-476746.

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

Detection Summary

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-1 — Lab Sample ID: 400-183283-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	140		110		ug/L	1		8015C	Total/NA

Client Sample ID: TW-2 — Lab Sample ID: 400-183283-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	780		110		ug/L	1		8015C	Total/NA

Client Sample ID: TW-5 — Lab Sample ID: 400-183283-3

No Detections.

Client Sample ID: TW-6 — Lab Sample ID: 400-183283-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	310		110		ug/L	1		8015C	Total/NA

Client Sample ID: TW-7 — Lab Sample ID: 400-183283-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	7.2		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: TW-3 — Lab Sample ID: 400-183283-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	2.5		0.18		ug/L	1		8270D LL	Total/NA
Diesel Range Organics [C10-C28]	200		120		ug/L	1		8015C	Total/NA

Client Sample ID: TW-4 — Lab Sample ID: 400-183283-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	560		120		ug/L	1		8015C	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-183283-1	TW-1	Water	01/27/20 12:15	01/30/20 09:22	
400-183283-2	TW-2	Water	01/27/20 11:07	01/30/20 09:22	
400-183283-3	TW-5	Water	01/29/20 10:20	01/30/20 09:22	
400-183283-4	TW-6	Water	01/29/20 11:40	01/30/20 09:22	
400-183283-5	TW-7	Water	01/29/20 12:40	01/30/20 09:22	
400-183283-6	TW-3	Water	01/27/20 13:50	01/30/20 09:22	
400-183283-7	TW-4	Water	01/29/20 08:45	01/30/20 09:22	

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-1
Date Collected: 01/27/20 12:15
Date Received: 01/30/20 09:22

Lab Sample ID: 400-183283-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			02/03/20 19:26	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/03/20 19:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/03/20 19:26	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/03/20 19:26	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/03/20 19:26	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/03/20 19:26	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 19:26	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 19:26	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/03/20 19:26	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 19:26	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/03/20 19:26	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/03/20 19:26	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 19:26	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 19:26	1
2-Hexanone	<25		25		ug/L			02/03/20 19:26	1
Acetone	<25		25		ug/L			02/03/20 19:26	1
Benzene	<1.0		1.0		ug/L			02/03/20 19:26	1
Bromodichloromethane	<1.0		1.0		ug/L			02/03/20 19:26	1
Bromoform	<5.0		5.0		ug/L			02/03/20 19:26	1
Bromomethane	<1.0		1.0		ug/L			02/03/20 19:26	1
Carbon disulfide	<1.0		1.0		ug/L			02/03/20 19:26	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/03/20 19:26	1
Chlorobenzene	<1.0		1.0		ug/L			02/03/20 19:26	1
Chlorobromomethane	<1.0		1.0		ug/L			02/03/20 19:26	1
Chloroethane	<1.0		1.0		ug/L			02/03/20 19:26	1
Chloroform	<1.0		1.0		ug/L			02/03/20 19:26	1
Chloromethane	<1.0		1.0		ug/L			02/03/20 19:26	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 19:26	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 19:26	1
Cyclohexane	<1.0		1.0		ug/L			02/03/20 19:26	1
Dibromochloromethane	<1.0		1.0		ug/L			02/03/20 19:26	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/03/20 19:26	1
Ethylbenzene	<1.0		1.0		ug/L			02/03/20 19:26	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/03/20 19:26	1
Isopropylbenzene	<1.0		1.0		ug/L			02/03/20 19:26	1
Methyl acetate	<5.0		5.0		ug/L			02/03/20 19:26	1
Methyl Ethyl Ketone	<25		25		ug/L			02/03/20 19:26	1
methyl isobutyl ketone	<25		25		ug/L			02/03/20 19:26	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			02/03/20 19:26	1
Methylene Chloride	<5.0		5.0		ug/L			02/03/20 19:26	1
Styrene	<1.0		1.0		ug/L			02/03/20 19:26	1
Tetrachloroethene	<1.0		1.0		ug/L			02/03/20 19:26	1
Toluene	<1.0		1.0		ug/L			02/03/20 19:26	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 19:26	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 19:26	1
Trichloroethene	<1.0		1.0		ug/L			02/03/20 19:26	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/03/20 19:26	1
Vinyl chloride	<1.0		1.0		ug/L			02/03/20 19:26	1
Xylenes, Total	<10		10		ug/L			02/03/20 19:26	1

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-1
Date Collected: 01/27/20 12:15
Date Received: 01/30/20 09:22

Lab Sample ID: 400-183283-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<1.0		1.0		ug/L			02/03/20 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*02/03/20 19:26*	*1*
Dibromofluoromethane	*96*		*81 - 121*		*02/03/20 19:26*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*02/03/20 19:26*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			02/04/20 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*105*		*78 - 119*		*02/04/20 18:44*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**140**		110		ug/L		02/03/20 13:51	02/05/20 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*75*		*40 - 140*	*02/03/20 13:51*	*02/05/20 02:43*	*1*

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-2
Date Collected: 01/27/20 11:07
Date Received: 01/30/20 09:22

Lab Sample ID: 400-183283-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			02/03/20 19:56	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/03/20 19:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/03/20 19:56	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/03/20 19:56	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/03/20 19:56	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/03/20 19:56	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 19:56	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 19:56	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/03/20 19:56	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 19:56	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/03/20 19:56	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/03/20 19:56	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 19:56	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 19:56	1
2-Hexanone	<25		25		ug/L			02/03/20 19:56	1
Acetone	<25		25		ug/L			02/03/20 19:56	1
Benzene	<1.0		1.0		ug/L			02/03/20 19:56	1
Bromodichloromethane	<1.0		1.0		ug/L			02/03/20 19:56	1
Bromoform	<5.0		5.0		ug/L			02/03/20 19:56	1
Bromomethane	<1.0		1.0		ug/L			02/03/20 19:56	1
Carbon disulfide	<1.0		1.0		ug/L			02/03/20 19:56	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/03/20 19:56	1
Chlorobenzene	<1.0		1.0		ug/L			02/03/20 19:56	1
Chlorobromomethane	<1.0		1.0		ug/L			02/03/20 19:56	1
Chloroethane	<1.0		1.0		ug/L			02/03/20 19:56	1
Chloroform	<1.0		1.0		ug/L			02/03/20 19:56	1
Chloromethane	<1.0		1.0		ug/L			02/03/20 19:56	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 19:56	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 19:56	1
Cyclohexane	<1.0		1.0		ug/L			02/03/20 19:56	1
Dibromochloromethane	<1.0		1.0		ug/L			02/03/20 19:56	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/03/20 19:56	1
Ethylbenzene	<1.0		1.0		ug/L			02/03/20 19:56	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/03/20 19:56	1
Isopropylbenzene	<1.0		1.0		ug/L			02/03/20 19:56	1
Methyl acetate	<5.0		5.0		ug/L			02/03/20 19:56	1
Methyl Ethyl Ketone	<25		25		ug/L			02/03/20 19:56	1
methyl isobutyl ketone	<25		25		ug/L			02/03/20 19:56	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			02/03/20 19:56	1
Methylene Chloride	<5.0		5.0		ug/L			02/03/20 19:56	1
Styrene	<1.0		1.0		ug/L			02/03/20 19:56	1
Tetrachloroethene	<1.0		1.0		ug/L			02/03/20 19:56	1
Toluene	<1.0		1.0		ug/L			02/03/20 19:56	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 19:56	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 19:56	1
Trichloroethene	<1.0		1.0		ug/L			02/03/20 19:56	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/03/20 19:56	1
Vinyl chloride	<1.0		1.0		ug/L			02/03/20 19:56	1
Xylenes, Total	<10		10		ug/L			02/03/20 19:56	1

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-2
Date Collected: 01/27/20 11:07
Date Received: 01/30/20 09:22

Lab Sample ID: 400-183283-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<1.0		1.0		ug/L			02/03/20 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*78 - 118*		*02/03/20 19:56*	*1*
Dibromofluoromethane	*94*		*81 - 121*		*02/03/20 19:56*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*02/03/20 19:56*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			02/04/20 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*105*		*78 - 119*		*02/04/20 20:09*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**780**		110		ug/L		02/03/20 13:51	02/05/20 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*73*		*40 - 140*	*02/03/20 13:51*	*02/05/20 02:54*	*1*

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-5
Date Collected: 01/29/20 10:20
Date Received: 01/30/20 09:22

Lab Sample ID: 400-183283-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			02/03/20 20:25	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/03/20 20:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/03/20 20:25	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/03/20 20:25	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/03/20 20:25	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/03/20 20:25	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 20:25	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 20:25	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/03/20 20:25	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 20:25	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/03/20 20:25	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/03/20 20:25	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 20:25	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 20:25	1
2-Hexanone	<25		25		ug/L			02/03/20 20:25	1
Acetone	<25		25		ug/L			02/03/20 20:25	1
Benzene	<1.0		1.0		ug/L			02/03/20 20:25	1
Bromodichloromethane	<1.0		1.0		ug/L			02/03/20 20:25	1
Bromoform	<5.0		5.0		ug/L			02/03/20 20:25	1
Bromomethane	<1.0		1.0		ug/L			02/03/20 20:25	1
Carbon disulfide	<1.0		1.0		ug/L			02/03/20 20:25	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/03/20 20:25	1
Chlorobenzene	<1.0		1.0		ug/L			02/03/20 20:25	1
Chlorobromomethane	<1.0		1.0		ug/L			02/03/20 20:25	1
Chloroethane	<1.0		1.0		ug/L			02/03/20 20:25	1
Chloroform	<1.0		1.0		ug/L			02/03/20 20:25	1
Chloromethane	<1.0		1.0		ug/L			02/03/20 20:25	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 20:25	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 20:25	1
Cyclohexane	<1.0		1.0		ug/L			02/03/20 20:25	1
Dibromochloromethane	<1.0		1.0		ug/L			02/03/20 20:25	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/03/20 20:25	1
Ethylbenzene	<1.0		1.0		ug/L			02/03/20 20:25	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/03/20 20:25	1
Isopropylbenzene	<1.0		1.0		ug/L			02/03/20 20:25	1
Methyl acetate	<5.0		5.0		ug/L			02/03/20 20:25	1
Methyl Ethyl Ketone	<25		25		ug/L			02/03/20 20:25	1
methyl isobutyl ketone	<25		25		ug/L			02/03/20 20:25	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			02/03/20 20:25	1
Methylene Chloride	<5.0		5.0		ug/L			02/03/20 20:25	1
Styrene	<1.0		1.0		ug/L			02/03/20 20:25	1
Tetrachloroethene	<1.0		1.0		ug/L			02/03/20 20:25	1
Toluene	<1.0		1.0		ug/L			02/03/20 20:25	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 20:25	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 20:25	1
Trichloroethene	<1.0		1.0		ug/L			02/03/20 20:25	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/03/20 20:25	1
Vinyl chloride	<1.0		1.0		ug/L			02/03/20 20:25	1
Xylenes, Total	<10		10		ug/L			02/03/20 20:25	1

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-5
Date Collected: 01/29/20 10:20
Date Received: 01/30/20 09:22

Lab Sample ID: 400-183283-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<1.0		1.0		ug/L			02/03/20 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*02/03/20 20:25*	*1*
Dibromofluoromethane	*96*		*81 - 121*		*02/03/20 20:25*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*02/03/20 20:25*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			02/04/20 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*104*		*78 - 119*		*02/04/20 20:37*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<110		110		ug/L		02/03/20 13:51	02/05/20 03:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*67*		*40 - 140*	*02/03/20 13:51*	*02/05/20 03:18*	*1*

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-6
Date Collected: 01/29/20 11:40
Date Received: 01/30/20 09:22

Lab Sample ID: 400-183283-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			02/03/20 20:55	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/03/20 20:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/03/20 20:55	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/03/20 20:55	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/03/20 20:55	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/03/20 20:55	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 20:55	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 20:55	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/03/20 20:55	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 20:55	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/03/20 20:55	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/03/20 20:55	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 20:55	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 20:55	1
2-Hexanone	<25		25		ug/L			02/03/20 20:55	1
Acetone	<25		25		ug/L			02/03/20 20:55	1
Benzene	<1.0		1.0		ug/L			02/03/20 20:55	1
Bromodichloromethane	<1.0		1.0		ug/L			02/03/20 20:55	1
Bromoform	<5.0		5.0		ug/L			02/03/20 20:55	1
Bromomethane	<1.0		1.0		ug/L			02/03/20 20:55	1
Carbon disulfide	<1.0		1.0		ug/L			02/03/20 20:55	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/03/20 20:55	1
Chlorobenzene	<1.0		1.0		ug/L			02/03/20 20:55	1
Chlorobromomethane	<1.0		1.0		ug/L			02/03/20 20:55	1
Chloroethane	<1.0		1.0		ug/L			02/03/20 20:55	1
Chloroform	<1.0		1.0		ug/L			02/03/20 20:55	1
Chloromethane	<1.0		1.0		ug/L			02/03/20 20:55	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 20:55	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 20:55	1
Cyclohexane	<1.0		1.0		ug/L			02/03/20 20:55	1
Dibromochloromethane	<1.0		1.0		ug/L			02/03/20 20:55	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/03/20 20:55	1
Ethylbenzene	<1.0		1.0		ug/L			02/03/20 20:55	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/03/20 20:55	1
Isopropylbenzene	<1.0		1.0		ug/L			02/03/20 20:55	1
Methyl acetate	<5.0		5.0		ug/L			02/03/20 20:55	1
Methyl Ethyl Ketone	<25		25		ug/L			02/03/20 20:55	1
methyl isobutyl ketone	<25		25		ug/L			02/03/20 20:55	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			02/03/20 20:55	1
Methylene Chloride	<5.0		5.0		ug/L			02/03/20 20:55	1
Styrene	<1.0		1.0		ug/L			02/03/20 20:55	1
Tetrachloroethene	<1.0		1.0		ug/L			02/03/20 20:55	1
Toluene	<1.0		1.0		ug/L			02/03/20 20:55	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 20:55	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 20:55	1
Trichloroethene	<1.0		1.0		ug/L			02/03/20 20:55	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/03/20 20:55	1
Vinyl chloride	<1.0		1.0		ug/L			02/03/20 20:55	1
Xylenes, Total	<10		10		ug/L			02/03/20 20:55	1

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-6
Date Collected: 01/29/20 11:40
Date Received: 01/30/20 09:22

Lab Sample ID: 400-183283-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<1.0		1.0		ug/L			02/03/20 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*02/03/20 20:55*	*1*
Dibromofluoromethane	*94*		*81 - 121*		*02/03/20 20:55*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*02/03/20 20:55*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			02/04/20 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*106*		*78 - 119*		*02/04/20 21:06*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**310**		110		ug/L		02/03/20 13:51	02/05/20 03:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*80*		*40 - 140*	*02/03/20 13:51*	*02/05/20 03:30*	*1*

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-7
Date Collected: 01/29/20 12:40
Date Received: 01/30/20 09:22

Lab Sample ID: 400-183283-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			02/03/20 21:24	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/03/20 21:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/03/20 21:24	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/03/20 21:24	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/03/20 21:24	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/03/20 21:24	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 21:24	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 21:24	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/03/20 21:24	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 21:24	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/03/20 21:24	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/03/20 21:24	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 21:24	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 21:24	1
2-Hexanone	<25		25		ug/L			02/03/20 21:24	1
Acetone	<25		25		ug/L			02/03/20 21:24	1
Benzene	<1.0		1.0		ug/L			02/03/20 21:24	1
Bromodichloromethane	<1.0		1.0		ug/L			02/03/20 21:24	1
Bromoform	<5.0		5.0		ug/L			02/03/20 21:24	1
Bromomethane	<1.0		1.0		ug/L			02/03/20 21:24	1
Carbon disulfide	<1.0		1.0		ug/L			02/03/20 21:24	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/03/20 21:24	1
Chlorobenzene	<1.0		1.0		ug/L			02/03/20 21:24	1
Chlorobromomethane	<1.0		1.0		ug/L			02/03/20 21:24	1
Chloroethane	<1.0		1.0		ug/L			02/03/20 21:24	1
Chloroform	<1.0		1.0		ug/L			02/03/20 21:24	1
Chloromethane	<1.0		1.0		ug/L			02/03/20 21:24	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 21:24	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 21:24	1
Cyclohexane	<1.0		1.0		ug/L			02/03/20 21:24	1
Dibromochloromethane	<1.0		1.0		ug/L			02/03/20 21:24	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/03/20 21:24	1
Ethylbenzene	<1.0		1.0		ug/L			02/03/20 21:24	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/03/20 21:24	1
Isopropylbenzene	<1.0		1.0		ug/L			02/03/20 21:24	1
Methyl acetate	<5.0		5.0		ug/L			02/03/20 21:24	1
Methyl Ethyl Ketone	<25		25		ug/L			02/03/20 21:24	1
methyl isobutyl ketone	<25		25		ug/L			02/03/20 21:24	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			02/03/20 21:24	1
Methylene Chloride	<5.0		5.0		ug/L			02/03/20 21:24	1
Styrene	<1.0		1.0		ug/L			02/03/20 21:24	1
Tetrachloroethene	**7.2**		1.0		ug/L			02/03/20 21:24	1
Toluene	<1.0		1.0		ug/L			02/03/20 21:24	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 21:24	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 21:24	1
Trichloroethene	<1.0		1.0		ug/L			02/03/20 21:24	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/03/20 21:24	1
Vinyl chloride	<1.0		1.0		ug/L			02/03/20 21:24	1
Xylenes, Total	<10		10		ug/L			02/03/20 21:24	1

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-7
Date Collected: 01/29/20 12:40
Date Received: 01/30/20 09:22

Lab Sample ID: 400-183283-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<1.0		1.0		ug/L			02/03/20 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*02/03/20 21:24*	*1*
Dibromofluoromethane	*96*		*81 - 121*		*02/03/20 21:24*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*02/03/20 21:24*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			02/04/20 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*78 - 119*		*02/04/20 21:34*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<110		110		ug/L		02/03/20 13:51	02/05/20 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*75*		*40 - 140*	*02/03/20 13:51*	*02/05/20 03:42*	*1*

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-3
Date Collected: 01/27/20 13:50
Date Received: 01/30/20 09:22

Lab Sample ID: 400-183283-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			02/03/20 21:54	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/03/20 21:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/03/20 21:54	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/03/20 21:54	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/03/20 21:54	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/03/20 21:54	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 21:54	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 21:54	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/03/20 21:54	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 21:54	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/03/20 21:54	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/03/20 21:54	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 21:54	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 21:54	1
2-Hexanone	<25		25		ug/L			02/03/20 21:54	1
Acetone	<25		25		ug/L			02/03/20 21:54	1
Benzene	<1.0		1.0		ug/L			02/03/20 21:54	1
Bromodichloromethane	<1.0		1.0		ug/L			02/03/20 21:54	1
Bromoform	<5.0		5.0		ug/L			02/03/20 21:54	1
Bromomethane	<1.0		1.0		ug/L			02/03/20 21:54	1
Carbon disulfide	<1.0		1.0		ug/L			02/03/20 21:54	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/03/20 21:54	1
Chlorobenzene	<1.0		1.0		ug/L			02/03/20 21:54	1
Chlorobromomethane	<1.0		1.0		ug/L			02/03/20 21:54	1
Chloroethane	<1.0		1.0		ug/L			02/03/20 21:54	1
Chloroform	<1.0		1.0		ug/L			02/03/20 21:54	1
Chloromethane	<1.0		1.0		ug/L			02/03/20 21:54	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 21:54	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 21:54	1
Cyclohexane	<1.0		1.0		ug/L			02/03/20 21:54	1
Dibromochloromethane	<1.0		1.0		ug/L			02/03/20 21:54	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/03/20 21:54	1
Ethylbenzene	<1.0		1.0		ug/L			02/03/20 21:54	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/03/20 21:54	1
Isopropylbenzene	<1.0		1.0		ug/L			02/03/20 21:54	1
Methyl acetate	<5.0		5.0		ug/L			02/03/20 21:54	1
Methyl Ethyl Ketone	<25		25		ug/L			02/03/20 21:54	1
methyl isobutyl ketone	<25		25		ug/L			02/03/20 21:54	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			02/03/20 21:54	1
Methylene Chloride	<5.0		5.0		ug/L			02/03/20 21:54	1
Styrene	<1.0		1.0		ug/L			02/03/20 21:54	1
Tetrachloroethene	<1.0		1.0		ug/L			02/03/20 21:54	1
Toluene	<1.0		1.0		ug/L			02/03/20 21:54	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 21:54	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 21:54	1
Trichloroethene	<1.0		1.0		ug/L			02/03/20 21:54	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/03/20 21:54	1
Vinyl chloride	<1.0		1.0		ug/L			02/03/20 21:54	1
Xylenes, Total	<10		10		ug/L			02/03/20 21:54	1

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-3

Date Collected: 01/27/20 13:50
Date Received: 01/30/20 09:22

Lab Sample ID: 400-183283-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<1.0		1.0		ug/L			02/03/20 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*02/03/20 21:54*	*1*
Dibromofluoromethane	*96*		*81 - 121*		*02/03/20 21:54*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*02/03/20 21:54*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.18		0.18		ug/L		02/03/20 11:34	02/06/20 15:03	1
Acenaphthylene	<0.18		0.18		ug/L		02/03/20 11:34	02/06/20 15:03	1
Anthracene	<0.18		0.18		ug/L		02/03/20 11:34	02/06/20 15:03	1
Benzo[a]pyrene	<0.18		0.18		ug/L		02/03/20 11:34	02/06/20 15:03	1
Benzo[b]fluoranthene	<0.18		0.18		ug/L		02/03/20 11:34	02/06/20 15:03	1
Benzo[g,h,i]perylene	<0.18		0.18		ug/L		02/03/20 11:34	02/06/20 15:03	1
Benzo[k]fluoranthene	<0.18		0.18		ug/L		02/03/20 11:34	02/06/20 15:03	1
Chrysene	<0.18		0.18		ug/L		02/03/20 11:34	02/06/20 15:03	1
Dibenz(a,h)anthracene	<0.18		0.18		ug/L		02/03/20 11:34	02/06/20 15:03	1
Fluoranthene	<0.18		0.18		ug/L		02/03/20 11:34	02/06/20 15:03	1
Fluorene	<0.18		0.18		ug/L		02/03/20 11:34	02/06/20 15:03	1
Indeno[1,2,3-cd]pyrene	<0.18		0.18		ug/L		02/03/20 11:34	02/06/20 15:03	1
1-Methylnaphthalene	<0.18		0.18		ug/L		02/03/20 11:34	02/06/20 15:03	1
2-Methylnaphthalene	<0.18		0.18		ug/L		02/03/20 11:34	02/06/20 15:03	1
Naphthalene	**2.5**		0.18		ug/L		02/03/20 11:34	02/06/20 15:03	1
Phenanthrene	<0.18		0.18		ug/L		02/03/20 11:34	02/06/20 15:03	1
Pyrene	<0.18		0.18		ug/L		02/03/20 11:34	02/06/20 15:03	1
Benzo[a]anthracene	<0.18		0.18		ug/L		02/03/20 11:34	02/06/20 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*15 - 122*	*02/03/20 11:34*	*02/06/20 15:03*	*1*
Nitrobenzene-d5 (Surr)	*76*		*19 - 130*	*02/03/20 11:34*	*02/06/20 15:03*	*1*
Terphenyl-d14 (Surr)	*85*		*33 - 138*	*02/03/20 11:34*	*02/06/20 15:03*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			02/04/20 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*105*		*78 - 119*		*02/04/20 22:02*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**200**		120		ug/L		02/03/20 13:51	02/05/20 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*81*		*40 - 140*	*02/03/20 13:51*	*02/05/20 03:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50		ug/L		02/03/20 09:21	02/07/20 00:32	1
PCB-1221	<0.50		0.50		ug/L		02/03/20 09:21	02/07/20 00:32	1

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-3
Date Collected: 01/27/20 13:50
Date Received: 01/30/20 09:22

Lab Sample ID: 400-183283-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.50		0.50		ug/L		02/03/20 09:21	02/07/20 00:32	1
PCB-1242	<0.50		0.50		ug/L		02/03/20 09:21	02/07/20 00:32	1
PCB-1248	<0.50		0.50		ug/L		02/03/20 09:21	02/07/20 00:32	1
PCB-1254	<0.50		0.50		ug/L		02/03/20 09:21	02/07/20 00:32	1
PCB-1260	<0.50		0.50		ug/L		02/03/20 09:21	02/07/20 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*10 - 125*	*02/03/20 09:21*	*02/07/20 00:32*	*1*
Tetrachloro-m-xylene	*46*		*46 - 150*	*02/03/20 09:21*	*02/07/20 00:32*	*1*

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-4
Date Collected: 01/29/20 08:45
Date Received: 01/30/20 09:22

Lab Sample ID: 400-183283-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			02/03/20 22:23	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/03/20 22:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/03/20 22:23	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/03/20 22:23	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/03/20 22:23	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/03/20 22:23	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 22:23	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 22:23	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/03/20 22:23	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 22:23	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/03/20 22:23	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/03/20 22:23	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 22:23	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 22:23	1
2-Hexanone	<25		25		ug/L			02/03/20 22:23	1
Acetone	<25		25		ug/L			02/03/20 22:23	1
Benzene	<1.0		1.0		ug/L			02/03/20 22:23	1
Bromodichloromethane	<1.0		1.0		ug/L			02/03/20 22:23	1
Bromoform	<5.0		5.0		ug/L			02/03/20 22:23	1
Bromomethane	<1.0		1.0		ug/L			02/03/20 22:23	1
Carbon disulfide	<1.0		1.0		ug/L			02/03/20 22:23	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/03/20 22:23	1
Chlorobenzene	<1.0		1.0		ug/L			02/03/20 22:23	1
Chlorobromomethane	<1.0		1.0		ug/L			02/03/20 22:23	1
Chloroethane	<1.0		1.0		ug/L			02/03/20 22:23	1
Chloroform	<1.0		1.0		ug/L			02/03/20 22:23	1
Chloromethane	<1.0		1.0		ug/L			02/03/20 22:23	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 22:23	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 22:23	1
Cyclohexane	<1.0		1.0		ug/L			02/03/20 22:23	1
Dibromochloromethane	<1.0		1.0		ug/L			02/03/20 22:23	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/03/20 22:23	1
Ethylbenzene	<1.0		1.0		ug/L			02/03/20 22:23	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/03/20 22:23	1
Isopropylbenzene	<1.0		1.0		ug/L			02/03/20 22:23	1
Methyl acetate	<5.0		5.0		ug/L			02/03/20 22:23	1
Methyl Ethyl Ketone	<25		25		ug/L			02/03/20 22:23	1
methyl isobutyl ketone	<25		25		ug/L			02/03/20 22:23	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			02/03/20 22:23	1
Methylene Chloride	<5.0		5.0		ug/L			02/03/20 22:23	1
Styrene	<1.0		1.0		ug/L			02/03/20 22:23	1
Tetrachloroethene	<1.0		1.0		ug/L			02/03/20 22:23	1
Toluene	<1.0		1.0		ug/L			02/03/20 22:23	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 22:23	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 22:23	1
Trichloroethene	<1.0		1.0		ug/L			02/03/20 22:23	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/03/20 22:23	1
Vinyl chloride	<1.0		1.0		ug/L			02/03/20 22:23	1
Xylenes, Total	<10		10		ug/L			02/03/20 22:23	1

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-4
Date Collected: 01/29/20 08:45
Date Received: 01/30/20 09:22

Lab Sample ID: 400-183283-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<1.0		1.0		ug/L			02/03/20 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*02/03/20 22:23*	*1*
Dibromofluoromethane	*96*		*81 - 121*		*02/03/20 22:23*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*02/03/20 22:23*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.20		0.20		ug/L		02/05/20 12:13	02/11/20 08:57	1
Acenaphthylene	<0.20		0.20		ug/L		02/05/20 12:13	02/11/20 08:57	1
Anthracene	<0.20		0.20		ug/L		02/05/20 12:13	02/11/20 08:57	1
Benzo[a]pyrene	<0.20		0.20		ug/L		02/05/20 12:13	02/11/20 08:57	1
Benzo[b]fluoranthene	<0.20		0.20		ug/L		02/05/20 12:13	02/11/20 08:57	1
Benzo[g,h,i]perylene	<0.20		0.20		ug/L		02/05/20 12:13	02/11/20 08:57	1
Benzo[k]fluoranthene	<0.20		0.20		ug/L		02/05/20 12:13	02/11/20 08:57	1
Chrysene	<0.20		0.20		ug/L		02/05/20 12:13	02/11/20 08:57	1
Dibenz(a,h)anthracene	<0.20		0.20		ug/L		02/05/20 12:13	02/11/20 08:57	1
Fluoranthene	<0.20		0.20		ug/L		02/05/20 12:13	02/11/20 08:57	1
Fluorene	<0.20		0.20		ug/L		02/05/20 12:13	02/11/20 08:57	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20		ug/L		02/05/20 12:13	02/11/20 08:57	1
1-Methylnaphthalene	<0.20		0.20		ug/L		02/05/20 12:13	02/11/20 08:57	1
2-Methylnaphthalene	<0.20		0.20		ug/L		02/05/20 12:13	02/11/20 08:57	1
Naphthalene	<0.20		0.20		ug/L		02/05/20 12:13	02/11/20 08:57	1
Phenanthrene	<0.20		0.20		ug/L		02/05/20 12:13	02/11/20 08:57	1
Pyrene	<0.20		0.20		ug/L		02/05/20 12:13	02/11/20 08:57	1
Benzo[a]anthracene	<0.20		0.20		ug/L		02/05/20 12:13	02/11/20 08:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*15 - 122*	*02/05/20 12:13*	*02/11/20 08:57*	*1*
Nitrobenzene-d5 (Surr)	*79*		*19 - 130*	*02/05/20 12:13*	*02/11/20 08:57*	*1*
Terphenyl-d14 (Surr)	*79*		*33 - 138*	*02/05/20 12:13*	*02/11/20 08:57*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			02/04/20 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*105*		*78 - 119*		*02/04/20 22:31*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**560**		120		ug/L		02/03/20 13:51	02/05/20 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*61*		*40 - 140*	*02/03/20 13:51*	*02/05/20 04:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.54		0.54		ug/L		02/03/20 09:21	02/07/20 01:02	1
PCB-1221	<0.54		0.54		ug/L		02/03/20 09:21	02/07/20 01:02	1

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-4
Date Collected: 01/29/20 08:45
Date Received: 01/30/20 09:22

Lab Sample ID: 400-183283-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.54		0.54		ug/L		02/03/20 09:21	02/07/20 01:02	1
PCB-1242	<0.54		0.54		ug/L		02/03/20 09:21	02/07/20 01:02	1
PCB-1248	<0.54		0.54		ug/L		02/03/20 09:21	02/07/20 01:02	1
PCB-1254	<0.54		0.54		ug/L		02/03/20 09:21	02/07/20 01:02	1
PCB-1260	<0.54		0.54		ug/L		02/03/20 09:21	02/07/20 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*53*		*10 - 125*	*02/03/20 09:21*	*02/07/20 01:02*	*1*
Tetrachloro-m-xylene	*48*		*46 - 150*	*02/03/20 09:21*	*02/07/20 01:02*	*1*

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-476419/4
Matrix: Water
Analysis Batch: 476419

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		1.0		ug/L			02/03/20 13:33	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/03/20 13:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/03/20 13:33	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/03/20 13:33	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/03/20 13:33	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/03/20 13:33	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 13:33	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 13:33	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/03/20 13:33	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 13:33	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/03/20 13:33	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/03/20 13:33	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 13:33	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 13:33	1
2-Hexanone	<25		25		ug/L			02/03/20 13:33	1
Acetone	<25		25		ug/L			02/03/20 13:33	1
Benzene	<1.0		1.0		ug/L			02/03/20 13:33	1
Bromodichloromethane	<1.0		1.0		ug/L			02/03/20 13:33	1
Bromoform	<5.0		5.0		ug/L			02/03/20 13:33	1
Bromomethane	<1.0		1.0		ug/L			02/03/20 13:33	1
Carbon disulfide	<1.0		1.0		ug/L			02/03/20 13:33	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/03/20 13:33	1
Chlorobenzene	<1.0		1.0		ug/L			02/03/20 13:33	1
Chlorobromomethane	<1.0		1.0		ug/L			02/03/20 13:33	1
Chloroethane	<1.0		1.0		ug/L			02/03/20 13:33	1
Chloroform	<1.0		1.0		ug/L			02/03/20 13:33	1
Chloromethane	<1.0		1.0		ug/L			02/03/20 13:33	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 13:33	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 13:33	1
Cyclohexane	<1.0		1.0		ug/L			02/03/20 13:33	1
Dibromochloromethane	<1.0		1.0		ug/L			02/03/20 13:33	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/03/20 13:33	1
Ethylbenzene	<1.0		1.0		ug/L			02/03/20 13:33	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/03/20 13:33	1
Isopropylbenzene	<1.0		1.0		ug/L			02/03/20 13:33	1
Methyl acetate	<5.0		5.0		ug/L			02/03/20 13:33	1
Methyl Ethyl Ketone	<25		25		ug/L			02/03/20 13:33	1
methyl isobutyl ketone	<25		25		ug/L			02/03/20 13:33	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			02/03/20 13:33	1
Methylene Chloride	<5.0		5.0		ug/L			02/03/20 13:33	1
Styrene	<1.0		1.0		ug/L			02/03/20 13:33	1
Tetrachloroethene	<1.0		1.0		ug/L			02/03/20 13:33	1
Toluene	<1.0		1.0		ug/L			02/03/20 13:33	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 13:33	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 13:33	1
Trichloroethene	<1.0		1.0		ug/L			02/03/20 13:33	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/03/20 13:33	1
Vinyl chloride	<1.0		1.0		ug/L			02/03/20 13:33	1

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

Lab Sample ID: MB 400-476419/4
Matrix: Water
Analysis Batch: 476419

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<10		10		ug/L			02/03/20 13:33	1
Naphthalene	<1.0		1.0		ug/L			02/03/20 13:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*02/03/20 13:33*	*1*
Dibromofluoromethane	*97*		*81 - 121*		*02/03/20 13:33*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*02/03/20 13:33*	*1*

Lab Sample ID: LCS 400-476419/1002
Matrix: Water
Analysis Batch: 476419

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	50.0	49.7		ug/L		99	68 - 130
1,1,2,2-Tetrachloroethane	50.0	45.4		ug/L		91	70 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.6		ug/L		99	60 - 139
1,1,2-Trichloroethane	50.0	46.9		ug/L		94	70 - 130
1,1-Dichloroethane	50.0	51.3		ug/L		103	70 - 130
1,1-Dichloroethene	50.0	50.6		ug/L		101	63 - 134
1,2,3-Trichlorobenzene	50.0	46.2		ug/L		92	60 - 138
1,2,4-Trichlorobenzene	50.0	45.8		ug/L		92	60 - 140
1,2-Dibromo-3-Chloropropane	50.0	44.5		ug/L		89	54 - 135
1,2-Dichlorobenzene	50.0	44.8		ug/L		90	67 - 130
1,2-Dichloroethane	50.0	48.8		ug/L		98	69 - 130
1,2-Dichloropropane	50.0	50.4		ug/L		101	70 - 130
1,3-Dichlorobenzene	50.0	44.2		ug/L		88	70 - 130
1,4-Dichlorobenzene	50.0	44.2		ug/L		88	70 - 130
2-Hexanone	200	175		ug/L		88	65 - 137
Acetone	200	185		ug/L		93	43 - 160
Benzene	50.0	49.6		ug/L		99	70 - 130
Bromodichloromethane	50.0	50.1		ug/L		100	67 - 133
Bromoform	50.0	47.3		ug/L		95	57 - 140
Bromomethane	50.0	52.2		ug/L		104	10 - 160
Carbon disulfide	50.0	52.2		ug/L		104	61 - 137
Carbon tetrachloride	50.0	48.4		ug/L		97	61 - 137
Chlorobenzene	50.0	47.0		ug/L		94	70 - 130
Chlorobromomethane	50.0	51.3		ug/L		103	70 - 130
Chloroethane	50.0	56.8		ug/L		114	55 - 141
Chloroform	50.0	50.2		ug/L		100	69 - 130
Chloromethane	50.0	50.5		ug/L		101	58 - 137
cis-1,2-Dichloroethene	50.0	49.8		ug/L		100	68 - 130
cis-1,3-Dichloropropene	50.0	49.7		ug/L		99	69 - 132
Cyclohexane	50.0	47.2		ug/L		94	70 - 130
Dibromochloromethane	50.0	47.9		ug/L		96	67 - 135
Dichlorodifluoromethane	50.0	50.8		ug/L		102	41 - 146
Ethylbenzene	50.0	46.2		ug/L		92	70 - 130
Ethylene Dibromide	50.0	45.1		ug/L		90	70 - 130
Isopropylbenzene	50.0	45.8		ug/L		92	70 - 130

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

Lab Sample ID: LCS 400-476419/1002
Matrix: Water
Analysis Batch: 476419

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl acetate	100	93.0		ug/L		93	45 - 159
Methyl Ethyl Ketone	200	198		ug/L		99	61 - 145
methyl isobutyl ketone	200	190		ug/L		95	69 - 138
Methyl tert-butyl ether	50.0	49.9		ug/L		100	66 - 130
Methylene Chloride	50.0	56.1		ug/L		112	66 - 135
Styrene	50.0	46.1		ug/L		92	70 - 130
Tetrachloroethene	50.0	44.0		ug/L		88	65 - 130
Toluene	50.0	45.5		ug/L		91	70 - 130
trans-1,2-Dichloroethene	50.0	49.5		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50.0	47.0		ug/L		94	63 - 130
Trichloroethene	50.0	51.6		ug/L		103	70 - 130
Trichlorofluoromethane	50.0	49.6		ug/L		99	65 - 138
Vinyl chloride	50.0	52.0		ug/L		104	59 - 136
Xylenes, Total	100	92.0		ug/L		92	70 - 130
Naphthalene	50.0	45.7		ug/L		91	47 - 149

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*78 - 118*
Dibromofluoromethane	*98*		*81 - 121*
Toluene-d8 (Surr)	*93*		*80 - 120*

Lab Sample ID: 400-183301-A-4 MS
Matrix: Water
Analysis Batch: 476419

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<1.0		50.0	50.8		ug/L		102	57 - 142
1,1,2,2-Tetrachloroethane	<1.0		50.0	46.3		ug/L		93	66 - 135
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		50.0	51.9		ug/L		104	55 - 150
1,1,2-Trichloroethane	<5.0		50.0	47.5		ug/L		95	66 - 131
1,1-Dichloroethane	<1.0		50.0	53.0		ug/L		106	61 - 144
1,1-Dichloroethene	<1.0		50.0	56.2		ug/L		112	54 - 147
1,2,3-Trichlorobenzene	<1.0		50.0	48.3		ug/L		97	43 - 145
1,2,4-Trichlorobenzene	<1.0		50.0	46.2		ug/L		92	39 - 148
1,2-Dibromo-3-Chloropropane	<5.0		50.0	47.1		ug/L		94	45 - 135
1,2-Dichlorobenzene	<1.0		50.0	44.3		ug/L		89	52 - 137
1,2-Dichloroethane	<1.0		50.0	50.0		ug/L		100	60 - 141
1,2-Dichloropropane	<1.0		50.0	51.5		ug/L		103	66 - 137
1,3-Dichlorobenzene	<1.0		50.0	44.2		ug/L		88	54 - 135
1,4-Dichlorobenzene	<1.0		50.0	44.1		ug/L		88	53 - 135
2-Hexanone	<25		200	173		ug/L		87	65 - 140
Acetone	<25		200	174		ug/L		87	43 - 150
Benzene	<1.0		50.0	51.0		ug/L		102	56 - 142
Bromodichloromethane	<1.0		50.0	50.9		ug/L		102	59 - 143
Bromoform	<5.0		50.0	47.5		ug/L		95	50 - 140
Bromomethane	<1.0		50.0	53.5		ug/L		107	10 - 150
Carbon disulfide	<1.0		50.0	53.5		ug/L		107	48 - 150
Carbon tetrachloride	<1.0		50.0	51.6		ug/L		103	55 - 145

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

Lab Sample ID: 400-183301-A-4 MS
Matrix: Water
Analysis Batch: 476419

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	<1.0		50.0	46.7		ug/L		93	64 - 130
Chlorobromomethane	<1.0		50.0	49.9		ug/L		100	64 - 140
Chloroethane	<1.0		50.0	57.6		ug/L		115	50 - 150
Chloroform	<1.0		50.0	51.7		ug/L		103	60 - 141
Chloromethane	<1.0		50.0	51.0		ug/L		102	49 - 148
cis-1,2-Dichloroethene	<1.0		50.0	50.6		ug/L		101	59 - 143
cis-1,3-Dichloropropene	<5.0		50.0	49.9		ug/L		100	57 - 140
Cyclohexane	<1.0		50.0	51.6		ug/L		103	58 - 141
Dibromochloromethane	<1.0		50.0	48.4		ug/L		97	56 - 143
Dichlorodifluoromethane	<1.0		50.0	57.3		ug/L		115	16 - 150
Ethylbenzene	<1.0		50.0	45.5		ug/L		91	58 - 131
Ethylene Dibromide	<1.0		50.0	47.2		ug/L		94	64 - 132
Isopropylbenzene	<1.0		50.0	44.8		ug/L		90	56 - 133
Methyl acetate	<5.0		100	93.1		ug/L		93	21 - 150
Methyl Ethyl Ketone	<25		200	191		ug/L		95	55 - 150
methyl isobutyl ketone	<25		200	194		ug/L		97	63 - 146
Methyl tert-butyl ether	<1.0		50.0	51.2		ug/L		102	59 - 137
Methylene Chloride	<5.0		50.0	52.8		ug/L		106	60 - 146
Styrene	<1.0		50.0	45.3		ug/L		91	58 - 131
Tetrachloroethene	<1.0		50.0	42.5		ug/L		85	52 - 133
Toluene	<1.0		50.0	46.5		ug/L		93	65 - 130
trans-1,2-Dichloroethene	<1.0		50.0	50.9		ug/L		102	61 - 143
trans-1,3-Dichloropropene	<5.0		50.0	46.1		ug/L		92	53 - 133
Trichloroethene	<1.0		50.0	52.8		ug/L		106	64 - 136
Trichlorofluoromethane	<1.0		50.0	54.7		ug/L		109	54 - 150
Vinyl chloride	<1.0		50.0	57.0		ug/L		114	46 - 150
Xylenes, Total	<10		100	91.3		ug/L		91	59 - 130
Naphthalene	<1.0		50.0	49.2		ug/L		98	25 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*97*		*81 - 121*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: 400-183301-A-4 MSD
Matrix: Water
Analysis Batch: 476419

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<1.0		50.0	49.4		ug/L		99	57 - 142	3	30
1,1,2,2-Tetrachloroethane	<1.0		50.0	44.9		ug/L		90	66 - 135	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		50.0	49.7		ug/L		99	55 - 150	4	30
1,1,2-Trichloroethane	<5.0		50.0	44.5		ug/L		89	66 - 131	7	30
1,1-Dichloroethane	<1.0		50.0	52.5		ug/L		105	61 - 144	1	30
1,1-Dichloroethene	<1.0		50.0	57.2		ug/L		114	54 - 147	2	30
1,2,3-Trichlorobenzene	<1.0		50.0	45.2		ug/L		90	43 - 145	7	30
1,2,4-Trichlorobenzene	<1.0		50.0	42.7		ug/L		85	39 - 148	8	30
1,2-Dibromo-3-Chloropropane	<5.0		50.0	46.8		ug/L		94	45 - 135	1	30

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

Lab Sample ID: 400-183301-A-4 MSD
Matrix: Water
Analysis Batch: 476419

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	<1.0		50.0	41.3		ug/L		83	52 - 137	7	30
1,2-Dichloroethane	<1.0		50.0	48.6		ug/L		97	60 - 141	3	30
1,2-Dichloropropane	<1.0		50.0	50.3		ug/L		101	66 - 137	2	30
1,3-Dichlorobenzene	<1.0		50.0	40.5		ug/L		81	54 - 135	9	30
1,4-Dichlorobenzene	<1.0		50.0	39.4		ug/L		79	53 - 135	11	30
2-Hexanone	<25		200	171		ug/L		85	65 - 140	2	30
Acetone	<25		200	180		ug/L		90	43 - 150	4	30
Benzene	<1.0		50.0	49.7		ug/L		99	56 - 142	2	30
Bromodichloromethane	<1.0		50.0	49.8		ug/L		100	59 - 143	2	30
Bromoform	<5.0		50.0	45.3		ug/L		91	50 - 140	5	30
Bromomethane	<1.0		50.0	52.8		ug/L		106	10 - 150	1	50
Carbon disulfide	<1.0		50.0	53.3		ug/L		107	48 - 150	0	30
Carbon tetrachloride	<1.0		50.0	51.3		ug/L		103	55 - 145	1	30
Chlorobenzene	<1.0		50.0	44.0		ug/L		88	64 - 130	6	30
Chlorobromomethane	<1.0		50.0	42.8		ug/L		86	64 - 140	15	30
Chloroethane	<1.0		50.0	58.7		ug/L		117	50 - 150	2	30
Chloroform	<1.0		50.0	49.9		ug/L		100	60 - 141	3	30
Chloromethane	<1.0		50.0	51.3		ug/L		103	49 - 148	0	31
cis-1,2-Dichloroethene	<1.0		50.0	49.7		ug/L		99	59 - 143	2	30
cis-1,3-Dichloropropene	<5.0		50.0	48.8		ug/L		98	57 - 140	2	30
Cyclohexane	<1.0		50.0	50.0		ug/L		100	58 - 141	3	30
Dibromochloromethane	<1.0		50.0	45.6		ug/L		91	56 - 143	6	30
Dichlorodifluoromethane	<1.0		50.0	48.0		ug/L		96	16 - 150	18	31
Ethylbenzene	<1.0		50.0	42.3		ug/L		85	58 - 131	7	30
Ethylene Dibromide	<1.0		50.0	45.2		ug/L		90	64 - 132	4	30
Isopropylbenzene	<1.0		50.0	41.0		ug/L		82	56 - 133	9	30
Methyl acetate	<5.0		100	94.6		ug/L		95	21 - 150	2	30
Methyl Ethyl Ketone	<25		200	193		ug/L		96	55 - 150	1	30
methyl isobutyl ketone	<25		200	193		ug/L		96	63 - 146	1	30
Methyl tert-butyl ether	<1.0		50.0	50.1		ug/L		100	59 - 137	2	30
Methylene Chloride	<5.0		50.0	50.9		ug/L		102	60 - 146	4	32
Styrene	<1.0		50.0	42.4		ug/L		85	58 - 131	7	30
Tetrachloroethene	<1.0		50.0	39.5		ug/L		79	52 - 133	7	30
Toluene	<1.0		50.0	43.9		ug/L		88	65 - 130	6	30
trans-1,2-Dichloroethene	<1.0		50.0	49.8		ug/L		100	61 - 143	2	30
trans-1,3-Dichloropropene	<5.0		50.0	45.0		ug/L		90	53 - 133	2	30
Trichloroethene	<1.0		50.0	51.1		ug/L		102	64 - 136	3	30
Trichlorofluoromethane	<1.0		50.0	49.9		ug/L		100	54 - 150	9	30
Vinyl chloride	<1.0		50.0	52.8		ug/L		106	46 - 150	8	30
Xylenes, Total	<10		100	85.0		ug/L		85	59 - 130	7	30
Naphthalene	<1.0		50.0	48.2		ug/L		96	25 - 150	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*78 - 118*
Dibromofluoromethane	*98*		*81 - 121*
Toluene-d8 (Surr)	*92*		*80 - 120*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 400-476444/1-A
Matrix: Water
Analysis Batch: 476870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 476444

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.050		0.050		ug/L		02/03/20 11:34	02/06/20 16:43	1
Acenaphthylene	<0.050		0.050		ug/L		02/03/20 11:34	02/06/20 16:43	1
Anthracene	<0.050		0.050		ug/L		02/03/20 11:34	02/06/20 16:43	1
Benzo[a]pyrene	<0.050		0.050		ug/L		02/03/20 11:34	02/06/20 16:43	1
Benzo[b]fluoranthene	<0.050		0.050		ug/L		02/03/20 11:34	02/06/20 16:43	1
Benzo[g,h,i]perylene	<0.050		0.050		ug/L		02/03/20 11:34	02/06/20 16:43	1
Benzo[k]fluoranthene	<0.050		0.050		ug/L		02/03/20 11:34	02/06/20 16:43	1
Chrysene	<0.050		0.050		ug/L		02/03/20 11:34	02/06/20 16:43	1
Dibenz(a,h)anthracene	<0.050		0.050		ug/L		02/03/20 11:34	02/06/20 16:43	1
Fluoranthene	<0.050		0.050		ug/L		02/03/20 11:34	02/06/20 16:43	1
Fluorene	<0.050		0.050		ug/L		02/03/20 11:34	02/06/20 16:43	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050		ug/L		02/03/20 11:34	02/06/20 16:43	1
1-Methylnaphthalene	<0.050		0.050		ug/L		02/03/20 11:34	02/06/20 16:43	1
2-Methylnaphthalene	<0.050		0.050		ug/L		02/03/20 11:34	02/06/20 16:43	1
Naphthalene	<0.050		0.050		ug/L		02/03/20 11:34	02/06/20 16:43	1
Phenanthrene	<0.050		0.050		ug/L		02/03/20 11:34	02/06/20 16:43	1
Pyrene	<0.050		0.050		ug/L		02/03/20 11:34	02/06/20 16:43	1
Benzo[a]anthracene	<0.050		0.050		ug/L		02/03/20 11:34	02/06/20 16:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*15 - 122*	*02/03/20 11:34*	*02/06/20 16:43*	*1*
Nitrobenzene-d5 (Surr)	*75*		*19 - 130*	*02/03/20 11:34*	*02/06/20 16:43*	*1*
Terphenyl-d14 (Surr)	*99*		*33 - 138*	*02/03/20 11:34*	*02/06/20 16:43*	*1*

Lab Sample ID: LCS 400-476444/2-A
Matrix: Water
Analysis Batch: 476870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 476444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	25.8		ug/L		86	41 - 120
Acenaphthylene	30.0	27.1		ug/L		90	44 - 120
Anthracene	30.0	26.8		ug/L		89	49 - 120
Benzo[a]pyrene	30.0	24.2		ug/L		81	52 - 120
Benzo[b]fluoranthene	30.0	23.5		ug/L		78	53 - 134
Benzo[g,h,i]perylene	30.0	20.9		ug/L		70	47 - 133
Benzo[k]fluoranthene	30.0	25.8		ug/L		86	57 - 134
Chrysene	30.0	24.1		ug/L		80	55 - 122
Dibenz(a,h)anthracene	30.0	21.9		ug/L		73	48 - 146
Fluoranthene	30.0	25.9		ug/L		86	54 - 128
Fluorene	30.0	28.8		ug/L		96	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	21.9		ug/L		73	43 - 142
1-Methylnaphthalene	30.0	25.6		ug/L		85	41 - 120
2-Methylnaphthalene	30.0	25.1		ug/L		84	32 - 124
Naphthalene	30.0	24.4		ug/L		81	39 - 125
Phenanthrene	30.0	26.3		ug/L		88	48 - 120
Pyrene	30.0	26.7		ug/L		89	48 - 132
Benzo[a]anthracene	30.0	26.0		ug/L		87	61 - 135

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 400-476444/2-A
Matrix: Water
Analysis Batch: 476870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 476444

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	85		15 - 122
Nitrobenzene-d5 (Surr)	87		19 - 130
Terphenyl-d14 (Surr)	99		33 - 138

Lab Sample ID: LCSD 400-476444/3-A
Matrix: Water
Analysis Batch: 476870

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 476444

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			30.0	24.0		ug/L		80	41 - 120	7	56
Acenaphthylene			30.0	24.4		ug/L		81	44 - 120	11	56
Anthracene			30.0	24.5		ug/L		82	49 - 120	9	51
Benzo[a]pyrene			30.0	21.7		ug/L		72	52 - 120	11	50
Benzo[b]fluoranthene			30.0	22.3		ug/L		74	53 - 134	5	54
Benzo[g,h,i]perylene			30.0	18.7		ug/L		62	47 - 133	11	50
Benzo[k]fluoranthene			30.0	23.3		ug/L		78	57 - 134	10	52
Chrysene			30.0	23.7		ug/L		79	55 - 122	2	50
Dibenz(a,h)anthracene			30.0	18.9		ug/L		63	48 - 146	15	50
Fluoranthene			30.0	22.3		ug/L		74	54 - 128	15	52
Fluorene			30.0	26.5		ug/L		88	45 - 125	8	56
Indeno[1,2,3-cd]pyrene			30.0	19.1		ug/L		64	43 - 142	14	51
1-Methylnaphthalene			30.0	23.6		ug/L		79	41 - 120	8	55
2-Methylnaphthalene			30.0	23.3		ug/L		78	32 - 124	7	57
Naphthalene			30.0	22.4		ug/L		75	39 - 125	8	56
Phenanthrene			30.0	24.4		ug/L		81	48 - 120	7	56
Pyrene			30.0	26.0		ug/L		87	48 - 132	3	52
Benzo[a]anthracene			30.0	24.2		ug/L		81	61 - 135	7	49

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	80		15 - 122
Nitrobenzene-d5 (Surr)	84		19 - 130
Terphenyl-d14 (Surr)	100		33 - 138

Lab Sample ID: MB 400-476746/1-A
Matrix: Water
Analysis Batch: 477222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 476746

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.20		0.20		ug/L		02/05/20 12:13	02/10/20 10:14	1
Acenaphthylene	<0.20		0.20		ug/L		02/05/20 12:13	02/10/20 10:14	1
Anthracene	<0.20		0.20		ug/L		02/05/20 12:13	02/10/20 10:14	1
Benzo[a]pyrene	<0.20		0.20		ug/L		02/05/20 12:13	02/10/20 10:14	1
Benzo[b]fluoranthene	<0.20		0.20		ug/L		02/05/20 12:13	02/10/20 10:14	1
Benzo[g,h,i]perylene	<0.20		0.20		ug/L		02/05/20 12:13	02/10/20 10:14	1
Benzo[k]fluoranthene	<0.20		0.20		ug/L		02/05/20 12:13	02/10/20 10:14	1
Chrysene	<0.20		0.20		ug/L		02/05/20 12:13	02/10/20 10:14	1
Dibenz(a,h)anthracene	<0.20		0.20		ug/L		02/05/20 12:13	02/10/20 10:14	1
Fluoranthene	<0.20		0.20		ug/L		02/05/20 12:13	02/10/20 10:14	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 400-476746/1-A
Matrix: Water
Analysis Batch: 477222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 476746

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.20		0.20		ug/L		02/05/20 12:13	02/10/20 10:14	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20		ug/L		02/05/20 12:13	02/10/20 10:14	1
1-Methylnaphthalene	<0.20		0.20		ug/L		02/05/20 12:13	02/10/20 10:14	1
2-Methylnaphthalene	<0.20		0.20		ug/L		02/05/20 12:13	02/10/20 10:14	1
Naphthalene	<0.20		0.20		ug/L		02/05/20 12:13	02/10/20 10:14	1
Phenanthrene	<0.20		0.20		ug/L		02/05/20 12:13	02/10/20 10:14	1
Pyrene	<0.20		0.20		ug/L		02/05/20 12:13	02/10/20 10:14	1
Benzo[a]anthracene	<0.20		0.20		ug/L		02/05/20 12:13	02/10/20 10:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*45*		*15 - 122*	*02/05/20 12:13*	*02/10/20 10:14*	*1*
Nitrobenzene-d5 (Surr)	*44*		*19 - 130*	*02/05/20 12:13*	*02/10/20 10:14*	*1*
Terphenyl-d14 (Surr)	*56*		*33 - 138*	*02/05/20 12:13*	*02/10/20 10:14*	*1*

Lab Sample ID: LCS 400-476746/2-A
Matrix: Water
Analysis Batch: 477222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 476746

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	120	97.6		ug/L		81	41 - 120
Acenaphthylene	120	102		ug/L		85	44 - 120
Anthracene	120	97.1		ug/L		81	49 - 120
Benzo[a]pyrene	120	99.2		ug/L		83	52 - 120
Benzo[b]fluoranthene	120	92.6		ug/L		77	53 - 134
Benzo[g,h,i]perylene	120	81.5		ug/L		68	47 - 133
Benzo[k]fluoranthene	120	105		ug/L		87	57 - 134
Chrysene	120	90.5		ug/L		75	55 - 122
Dibenz(a,h)anthracene	120	82.1		ug/L		68	48 - 146
Fluoranthene	120	94.5		ug/L		79	54 - 128
Fluorene	120	107		ug/L		89	45 - 125
Indeno[1,2,3-cd]pyrene	120	84.6		ug/L		71	43 - 142
1-Methylnaphthalene	120	88.7		ug/L		74	41 - 120
2-Methylnaphthalene	120	89.6		ug/L		75	32 - 124
Naphthalene	120	89.7		ug/L		75	39 - 125
Phenanthrene	120	97.8		ug/L		81	48 - 120
Pyrene	120	99.7		ug/L		83	48 - 132
Benzo[a]anthracene	120	93.2		ug/L		78	61 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*80*		*15 - 122*
Nitrobenzene-d5 (Surr)	*78*		*19 - 130*
Terphenyl-d14 (Surr)	*78*		*33 - 138*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 400-476746/3-A
Matrix: Water
Analysis Batch: 477222

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 476746

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			120	101		ug/L		84	41 - 120	3	56
Acenaphthylene			120	104		ug/L		87	44 - 120	2	56
Anthracene			120	100		ug/L		84	49 - 120	3	51
Benzo[a]pyrene			120	109		ug/L		91	52 - 120	10	50
Benzo[b]fluoranthene			120	103		ug/L		85	53 - 134	10	54
Benzo[g,h,i]perylene			120	89.5		ug/L		75	47 - 133	9	50
Benzo[k]fluoranthene			120	106		ug/L		88	57 - 134	1	52
Chrysene			120	98.8		ug/L		82	55 - 122	9	50
Dibenz(a,h)anthracene			120	89.5		ug/L		75	48 - 146	9	50
Fluoranthene			120	96.0		ug/L		80	54 - 128	2	52
Fluorene			120	110		ug/L		92	45 - 125	3	56
Indeno[1,2,3-cd]pyrene			120	93.2		ug/L		78	43 - 142	10	51
1-Methylnaphthalene			120	95.3		ug/L		79	41 - 120	7	55
2-Methylnaphthalene			120	97.6		ug/L		81	32 - 124	9	57
Naphthalene			120	91.0		ug/L		76	39 - 125	1	56
Phenanthrene			120	102		ug/L		85	48 - 120	4	56
Pyrene			120	105		ug/L		88	48 - 132	5	52
Benzo[a]anthracene			120	104		ug/L		86	61 - 135	11	49

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*78*		*15 - 122*
Nitrobenzene-d5 (Surr)	*80*		*19 - 130*
Terphenyl-d14 (Surr)	*88*		*33 - 138*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 400-476573/4
Matrix: Water
Analysis Batch: 476573

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			02/04/20 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*104*		*78 - 119*		*02/04/20 11:39*	*1*

Lab Sample ID: LCS 400-476573/1003
Matrix: Water
Analysis Batch: 476573

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C6-C10			1000	1010		ug/L		101	85 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*102*		*78 - 119*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: 560-84840-A-3 MS
Matrix: Water
Analysis Batch: 476573

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	<100		1000	1080		ug/L		108	35 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*100*		*78 - 119*

Lab Sample ID: 560-84840-A-3 MSD
Matrix: Water
Analysis Batch: 476573

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	<100		1000	1120		ug/L		112	35 - 150	3	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*102*		*78 - 119*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 400-476480/1-A
Matrix: Water
Analysis Batch: 476627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 476480

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<130		130		ug/L		02/03/20 13:50	02/05/20 00:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*65*		*40 - 140*	*02/03/20 13:50*	*02/05/20 00:57*	*1*

Lab Sample ID: LCS 400-476480/2-A
Matrix: Water
Analysis Batch: 476627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 476480

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			17000	10400		ug/L		61	40 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*76*		*40 - 140*

Lab Sample ID: LCSD 400-476480/3-A
Matrix: Water
Analysis Batch: 476627

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 476480

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			17000	12200		ug/L		72	40 - 120	15	50

Method: 8015C - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 400-476480/3-A
Matrix: Water
Analysis Batch: 476627

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 476480

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl (Surr)	87		40 - 140

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

Lab Sample ID: MB 400-476390/1-A
Matrix: Water
Analysis Batch: 476932

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 476390

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50		ug/L		02/03/20 09:20	02/06/20 16:57	1
PCB-1221	<0.50		0.50		ug/L		02/03/20 09:20	02/06/20 16:57	1
PCB-1232	<0.50		0.50		ug/L		02/03/20 09:20	02/06/20 16:57	1
PCB-1242	<0.50		0.50		ug/L		02/03/20 09:20	02/06/20 16:57	1
PCB-1248	<0.50		0.50		ug/L		02/03/20 09:20	02/06/20 16:57	1
PCB-1254	<0.50		0.50		ug/L		02/03/20 09:20	02/06/20 16:57	1
PCB-1260	<0.50		0.50		ug/L		02/03/20 09:20	02/06/20 16:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	43		10 - 125	02/03/20 09:20	02/06/20 16:57	1
Tetrachloro-m-xylene	47		46 - 150	02/03/20 09:20	02/06/20 16:57	1

Lab Sample ID: LCS 400-476390/2-A
Matrix: Water
Analysis Batch: 476932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 476390

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			20.2	12.5		ug/L		62	54 - 126		
PCB-1260			20.1	13.6		ug/L		68	56 - 139		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	36		10 - 125
Tetrachloro-m-xylene	44	X	46 - 150

Lab Sample ID: LCSD 400-476390/3-A
Matrix: Water
Analysis Batch: 476932

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 476390

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			20.2	12.8		ug/L		63	54 - 126	9	40
PCB-1260			20.1	16.4		ug/L		82	56 - 139	39	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	69		10 - 125
Tetrachloro-m-xylene	46		46 - 150

QC Association Summary

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

GC/MS VOA

Analysis Batch: 476419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183283-1	TW-1	Total/NA	Water	8260B	
400-183283-2	TW-2	Total/NA	Water	8260B	
400-183283-3	TW-5	Total/NA	Water	8260B	
400-183283-4	TW-6	Total/NA	Water	8260B	
400-183283-5	TW-7	Total/NA	Water	8260B	
400-183283-6	TW-3	Total/NA	Water	8260B	
400-183283-7	TW-4	Total/NA	Water	8260B	
MB 400-476419/4	Method Blank	Total/NA	Water	8260B	
LCS 400-476419/1002	Lab Control Sample	Total/NA	Water	8260B	
400-183301-A-4 MS	Matrix Spike	Total/NA	Water	8260B	
400-183301-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 476444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183283-6	TW-3	Total/NA	Water	3520C	
MB 400-476444/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-476444/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-476444/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Prep Batch: 476746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183283-7	TW-4	Total/NA	Water	3520C	
MB 400-476746/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-476746/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-476746/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 476870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183283-6	TW-3	Total/NA	Water	8270D LL	476444
MB 400-476444/1-A	Method Blank	Total/NA	Water	8270D LL	476444
LCS 400-476444/2-A	Lab Control Sample	Total/NA	Water	8270D LL	476444
LCSD 400-476444/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	476444

Analysis Batch: 477222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-476746/1-A	Method Blank	Total/NA	Water	8270D LL	476746
LCS 400-476746/2-A	Lab Control Sample	Total/NA	Water	8270D LL	476746
LCSD 400-476746/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	476746

Analysis Batch: 477422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183283-7	TW-4	Total/NA	Water	8270D LL	476746

GC VOA

Analysis Batch: 476573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183283-1	TW-1	Total/NA	Water	8015C	
400-183283-2	TW-2	Total/NA	Water	8015C	
400-183283-3	TW-5	Total/NA	Water	8015C	

GC VOA (Continued)

Analysis Batch: 476573 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183283-4	TW-6	Total/NA	Water	8015C	
400-183283-5	TW-7	Total/NA	Water	8015C	
400-183283-6	TW-3	Total/NA	Water	8015C	
400-183283-7	TW-4	Total/NA	Water	8015C	
MB 400-476573/4	Method Blank	Total/NA	Water	8015C	
LCS 400-476573/1003	Lab Control Sample	Total/NA	Water	8015C	
560-84840-A-3 MS	Matrix Spike	Total/NA	Water	8015C	
560-84840-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 476390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183283-6	TW-3	Total/NA	Water	3520C	
400-183283-7	TW-4	Total/NA	Water	3520C	
MB 400-476390/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-476390/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-476390/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Prep Batch: 476480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183283-1	TW-1	Total/NA	Water	3510C	
400-183283-2	TW-2	Total/NA	Water	3510C	
400-183283-3	TW-5	Total/NA	Water	3510C	
400-183283-4	TW-6	Total/NA	Water	3510C	
400-183283-5	TW-7	Total/NA	Water	3510C	
400-183283-6	TW-3	Total/NA	Water	3510C	
400-183283-7	TW-4	Total/NA	Water	3510C	
MB 400-476480/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-476480/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-476480/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 476627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183283-1	TW-1	Total/NA	Water	8015C	476480
400-183283-2	TW-2	Total/NA	Water	8015C	476480
400-183283-3	TW-5	Total/NA	Water	8015C	476480
400-183283-4	TW-6	Total/NA	Water	8015C	476480
400-183283-5	TW-7	Total/NA	Water	8015C	476480
400-183283-6	TW-3	Total/NA	Water	8015C	476480
400-183283-7	TW-4	Total/NA	Water	8015C	476480
MB 400-476480/1-A	Method Blank	Total/NA	Water	8015C	476480
LCS 400-476480/2-A	Lab Control Sample	Total/NA	Water	8015C	476480
LCSD 400-476480/3-A	Lab Control Sample Dup	Total/NA	Water	8015C	476480

Analysis Batch: 476932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183283-6	TW-3	Total/NA	Water	8082A	476390
400-183283-7	TW-4	Total/NA	Water	8082A	476390
MB 400-476390/1-A	Method Blank	Total/NA	Water	8082A	476390
LCS 400-476390/2-A	Lab Control Sample	Total/NA	Water	8082A	476390

GC Semi VOA (Continued)

Analysis Batch: 476932 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 400-476390/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	476390

Lab Chronicle

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-1

Lab Sample ID: 400-183283-1

Date Collected: 01/27/20 12:15

Matrix: Water

Date Received: 01/30/20 09:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	476419	02/03/20 19:26	RS	TAL PEN
Total/NA	Analysis	8015C		1	476573	02/04/20 18:44	CMW	TAL PEN
Total/NA	Prep	3510C			476480	02/03/20 13:51	CCR	TAL PEN
Total/NA	Analysis	8015C		1	476627	02/05/20 02:43	JAW	TAL PEN

Client Sample ID: TW-2

Lab Sample ID: 400-183283-2

Date Collected: 01/27/20 11:07

Matrix: Water

Date Received: 01/30/20 09:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	476419	02/03/20 19:56	RS	TAL PEN
Total/NA	Analysis	8015C		1	476573	02/04/20 20:09	CMW	TAL PEN
Total/NA	Prep	3510C			476480	02/03/20 13:51	CCR	TAL PEN
Total/NA	Analysis	8015C		1	476627	02/05/20 02:54	JAW	TAL PEN

Client Sample ID: TW-5

Lab Sample ID: 400-183283-3

Date Collected: 01/29/20 10:20

Matrix: Water

Date Received: 01/30/20 09:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	476419	02/03/20 20:25	RS	TAL PEN
Total/NA	Analysis	8015C		1	476573	02/04/20 20:37	CMW	TAL PEN
Total/NA	Prep	3510C			476480	02/03/20 13:51	CCR	TAL PEN
Total/NA	Analysis	8015C		1	476627	02/05/20 03:18	JAW	TAL PEN

Client Sample ID: TW-6

Lab Sample ID: 400-183283-4

Date Collected: 01/29/20 11:40

Matrix: Water

Date Received: 01/30/20 09:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	476419	02/03/20 20:55	RS	TAL PEN
Total/NA	Analysis	8015C		1	476573	02/04/20 21:06	CMW	TAL PEN
Total/NA	Prep	3510C			476480	02/03/20 13:51	CCR	TAL PEN
Total/NA	Analysis	8015C		1	476627	02/05/20 03:30	JAW	TAL PEN

Client Sample ID: TW-7

Lab Sample ID: 400-183283-5

Date Collected: 01/29/20 12:40

Matrix: Water

Date Received: 01/30/20 09:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	476419	02/03/20 21:24	RS	TAL PEN
Total/NA	Analysis	8015C		1	476573	02/04/20 21:34	CMW	TAL PEN
Total/NA	Prep	3510C			476480	02/03/20 13:51	CCR	TAL PEN
Total/NA	Analysis	8015C		1	476627	02/05/20 03:42	JAW	TAL PEN

Lab Chronicle

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Client Sample ID: TW-3

Lab Sample ID: 400-183283-6

Date Collected: 01/27/20 13:50

Matrix: Water

Date Received: 01/30/20 09:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	476419	02/03/20 21:54	RS	TAL PEN
Total/NA	Prep	3520C			476444	02/03/20 11:34	JRW	TAL PEN
Total/NA	Analysis	8270D LL		1	476870	02/06/20 15:03	KJA	TAL PEN
Total/NA	Analysis	8015C		1	476573	02/04/20 22:02	CMW	TAL PEN
Total/NA	Prep	3510C			476480	02/03/20 13:51	CCR	TAL PEN
Total/NA	Analysis	8015C		1	476627	02/05/20 03:53	JAW	TAL PEN
Total/NA	Prep	3520C			476390	02/03/20 09:21	JRW	TAL PEN
Total/NA	Analysis	8082A		1	476932	02/07/20 00:32	DS	TAL PEN

Client Sample ID: TW-4

Lab Sample ID: 400-183283-7

Date Collected: 01/29/20 08:45

Matrix: Water

Date Received: 01/30/20 09:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	476419	02/03/20 22:23	RS	TAL PEN
Total/NA	Prep	3520C			476746	02/05/20 12:13	BAW	TAL PEN
Total/NA	Analysis	8270D LL		1	477422	02/11/20 08:57	PP1	TAL PEN
Total/NA	Analysis	8015C		1	476573	02/04/20 22:31	CMW	TAL PEN
Total/NA	Prep	3510C			476480	02/03/20 13:51	CCR	TAL PEN
Total/NA	Analysis	8015C		1	476627	02/05/20 04:05	JAW	TAL PEN
Total/NA	Prep	3520C			476390	02/03/20 09:21	JRW	TAL PEN
Total/NA	Analysis	8082A		1	476932	02/07/20 01:02	DS	TAL PEN

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Laboratory: Eurofins TestAmerica, Pensacola

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Virginia	NELAP	460166	06-14-20

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
8260B		Water	Cyclohexane
8260B		Water	Dibromofluoromethane

Method Summary

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183283-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL PEN
8015C	Diesel Range Organics (DRO) (GC)	EPA	TAL PEN
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL PEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL PEN
5030B	Purge and Trap	SW846	TAL PEN
5030C	Purge and Trap	SW846	TAL PEN

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 PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing TestAmerica

400-183283 COC

Client Information	Sampler: ALEXIS HOLCOMB	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-90970-33436.1
Client Contact: Alexis Holcomb	Phone: 703 869 1596	E-Mail: mark.swafford@testamericainc.com		Page: Page 1 of 2
Company: SCS Engineers				Job #:
Address: 2877 Guardian Lane Suite 1-F	Due Date Requested:			
City: Virginia Beach	TAT Requested (days): 10			
State, Zip: VA, 23452				
Phone: 757 201 9264	PO #: Purchase Order Requested			
Email: AHolcomb@scsengineers.com	WO #:			
Project Name: St.Paul's Sampling	Project #: 40005152			
Site:	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)	8015C_DRO - (MOD) DRO C10-C28	8015C_GRO - GRO (C6-C10)	8260B - TCL Volatiles	8082A - TCL PCBs by 8082A	8270D - TCL Semivolatiles	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	A	N	N		
B-1 TW-1	1/27/20	1215	G	Water			X	X	X				
B-2 TW-2	1/27/20	1107	G	Water			X	X	X				
B-5 TW-5	1/29/20	1020	G	Water			X	X	X				
B-6 TW-6	1/29/20	1140	G	Water			X	X	X				
B-7 TW-7	1/29/20	1240	G	Water			X	X	X				
B-8				Water									
B-9				Water									
B-10				Water									
B-11				Water									
B-12				Water									
B-13				Water									

Virginia Beach #202

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	[signature]	1/29/20 1345	SCS	[signature]	1/29/20 1345	ETA
2	[signature]	1/29/20 1600	ETA	[signature]	Date/Time:	Company
3	[signature]	Date/Time:	Company	[signature]	1/30/20 9:28	TA PEN

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: [illegible], 0.1°, 0.2° IR9

Ver: 01/16/2019

Page 41 of 45

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ALEXIS HOLCOMB	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-90970-33436.2
Client Contact: Alexis Holcomb	Phone: 703 869 1596	E-Mail: mark.swafford@testamericainc.com		Page: Page 2 of 2
Company: SCS Engineers				Job #:
Address: 2877 Guardian Lane Suite 1-F	Due Date Requested:			
City: Virginia Beach	TAT Requested (days): 10			
State, Zip: VA, 23452				
Phone: 757 201 9264	PO #: Purchase Order Requested			
Email: AHolcomb@scsengineers.com	WO #:			
Project Name: St.Paul's Sampling	Project #: 40005152			
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)	8015C_DRO - (MOD) DRO C10-C28	8015C_GRO - GRO (C6-C10)	8260B - TCL Volatiles	8082A - TCL PCBs by 8082A	8270D - TCL Semivolatiles	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	A	N	N		
B-14				Water									
B-15				Water									
B-16				Water									
B-3 TW-3	1/27/20	1350	G	Water			X	X	X	X	X		
B-4 TW-4	1/29/20	845	G	Water			X	X	X	X	X		

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		1/29/20 1345	SCS		1/29/20 1345	ETA
2		1/29/20 1600	ETA			
3					1/30/20 9:22	TA PEN

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.1°, 0.1°, 0.2° IR9

Ver: 01/16/2019

Virginia Beach #202

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 400-183283-1

Login Number: 183283

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Conrady, Hank W

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.1°C 0.2°C IR-9
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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-183312-1
Client Project/Site: St.Paul's

For:
SCS Engineers
2877 Guardian Lane
Suite 1-F
Virginia Beach, Virginia 23452

Attn: Alexis Holcomb

Mark Swafford

Authorized for release by:
2/6/2020 10:55:09 AM

Mark Swafford, Project Manager II
(850)471-6207
mark.swafford@testamericainc.com

Table of Contents

Definitions/Glossary

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

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
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Job ID: 400-183312-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-183312-1

Comments
No additional comments.

Receipt
The samples were received on 1/31/2020 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5º C.

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

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

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

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

Detection Summary

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Client Sample ID: TW-8 — Lab Sample ID: 400-183312-1

No Detections.

Client Sample ID: TW-9 — Lab Sample ID: 400-183312-2

No Detections.

Client Sample ID: TW-10 — Lab Sample ID: 400-183312-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	7.2		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: TW-11 — Lab Sample ID: 400-183312-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	760		110		ug/L	1		8015C	Total/NA

Client Sample ID: TW-12 — Lab Sample ID: 400-183312-5

No Detections.

Client Sample ID: TW-13 — Lab Sample ID: 400-183312-6

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-183312-1	TW-8	Water	01/30/20 09:30	01/31/20 08:45	
400-183312-2	TW-9	Water	01/30/20 08:20	01/31/20 08:45	
400-183312-3	TW-10	Water	01/30/20 10:45	01/31/20 08:45	
400-183312-4	TW-11	Water	01/30/20 11:45	01/31/20 08:45	
400-183312-5	TW-12	Water	01/30/20 12:35	01/31/20 08:45	
400-183312-6	TW-13	Water	01/30/20 13:33	01/31/20 08:45	

Client Sample Results

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Client Sample ID: TW-8

Date Collected: 01/30/20 09:30
Date Received: 01/31/20 08:45

Lab Sample ID: 400-183312-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			02/03/20 14:01	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/03/20 14:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/03/20 14:01	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/03/20 14:01	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/03/20 14:01	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/03/20 14:01	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 14:01	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 14:01	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/03/20 14:01	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 14:01	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/03/20 14:01	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/03/20 14:01	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 14:01	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 14:01	1
2-Hexanone	<25		25		ug/L			02/03/20 14:01	1
Acetone	<25		25		ug/L			02/03/20 14:01	1
Benzene	<1.0		1.0		ug/L			02/03/20 14:01	1
Bromodichloromethane	<1.0		1.0		ug/L			02/03/20 14:01	1
Bromoform	<5.0		5.0		ug/L			02/03/20 14:01	1
Bromomethane	<1.0		1.0		ug/L			02/03/20 14:01	1
Carbon disulfide	<1.0		1.0		ug/L			02/03/20 14:01	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/03/20 14:01	1
Chlorobenzene	<1.0		1.0		ug/L			02/03/20 14:01	1
Chlorobromomethane	<1.0		1.0		ug/L			02/03/20 14:01	1
Chloroethane	<1.0		1.0		ug/L			02/03/20 14:01	1
Chloroform	<1.0		1.0		ug/L			02/03/20 14:01	1
Chloromethane	<1.0		1.0		ug/L			02/03/20 14:01	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 14:01	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 14:01	1
Cyclohexane	<1.0		1.0		ug/L			02/03/20 14:01	1
Dibromochloromethane	<1.0		1.0		ug/L			02/03/20 14:01	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/03/20 14:01	1
Ethylbenzene	<1.0		1.0		ug/L			02/03/20 14:01	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/03/20 14:01	1
Isopropylbenzene	<1.0		1.0		ug/L			02/03/20 14:01	1
Methyl acetate	<5.0		5.0		ug/L			02/03/20 14:01	1
Methyl Ethyl Ketone	<25		25		ug/L			02/03/20 14:01	1
methyl isobutyl ketone	<25		25		ug/L			02/03/20 14:01	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			02/03/20 14:01	1
Methylene Chloride	<5.0		5.0		ug/L			02/03/20 14:01	1
Styrene	<1.0		1.0		ug/L			02/03/20 14:01	1
Tetrachloroethene	<1.0		1.0		ug/L			02/03/20 14:01	1
Toluene	<1.0		1.0		ug/L			02/03/20 14:01	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 14:01	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 14:01	1
Trichloroethene	<1.0		1.0		ug/L			02/03/20 14:01	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/03/20 14:01	1
Vinyl chloride	<1.0		1.0		ug/L			02/03/20 14:01	1
Xylenes, Total	<10		10		ug/L			02/03/20 14:01	1

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Client Sample ID: TW-8

Date Collected: 01/30/20 09:30
Date Received: 01/31/20 08:45

Lab Sample ID: 400-183312-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<1.0		1.0		ug/L			02/03/20 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*78 - 118*		*02/03/20 14:01*	*1*
Dibromofluoromethane	*87*		*81 - 121*		*02/03/20 14:01*	*1*
Toluene-d8 (Surr)	*112*		*80 - 120*		*02/03/20 14:01*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			02/05/20 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*106*		*78 - 119*		*02/05/20 00:53*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<110		110		ug/L		02/04/20 10:02	02/05/20 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*71*		*40 - 140*	*02/04/20 10:02*	*02/05/20 18:13*	*1*

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Client Sample ID: TW-9

Date Collected: 01/30/20 08:20
Date Received: 01/31/20 08:45

Lab Sample ID: 400-183312-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			02/03/20 16:46	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/03/20 16:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/03/20 16:46	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/03/20 16:46	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/03/20 16:46	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/03/20 16:46	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 16:46	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 16:46	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/03/20 16:46	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 16:46	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/03/20 16:46	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/03/20 16:46	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 16:46	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 16:46	1
2-Hexanone	<25		25		ug/L			02/03/20 16:46	1
Acetone	<25		25		ug/L			02/03/20 16:46	1
Benzene	<1.0		1.0		ug/L			02/03/20 16:46	1
Bromodichloromethane	<1.0		1.0		ug/L			02/03/20 16:46	1
Bromoform	<5.0		5.0		ug/L			02/03/20 16:46	1
Bromomethane	<1.0		1.0		ug/L			02/03/20 16:46	1
Carbon disulfide	<1.0		1.0		ug/L			02/03/20 16:46	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/03/20 16:46	1
Chlorobenzene	<1.0		1.0		ug/L			02/03/20 16:46	1
Chlorobromomethane	<1.0		1.0		ug/L			02/03/20 16:46	1
Chloroethane	<1.0		1.0		ug/L			02/03/20 16:46	1
Chloroform	<1.0		1.0		ug/L			02/03/20 16:46	1
Chloromethane	<1.0		1.0		ug/L			02/03/20 16:46	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 16:46	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 16:46	1
Cyclohexane	<1.0		1.0		ug/L			02/03/20 16:46	1
Dibromochloromethane	<1.0		1.0		ug/L			02/03/20 16:46	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/03/20 16:46	1
Ethylbenzene	<1.0		1.0		ug/L			02/03/20 16:46	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/03/20 16:46	1
Isopropylbenzene	<1.0		1.0		ug/L			02/03/20 16:46	1
Methyl acetate	<5.0		5.0		ug/L			02/03/20 16:46	1
Methyl Ethyl Ketone	<25		25		ug/L			02/03/20 16:46	1
methyl isobutyl ketone	<25		25		ug/L			02/03/20 16:46	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			02/03/20 16:46	1
Methylene Chloride	<5.0		5.0		ug/L			02/03/20 16:46	1
Styrene	<1.0		1.0		ug/L			02/03/20 16:46	1
Tetrachloroethene	<1.0		1.0		ug/L			02/03/20 16:46	1
Toluene	<1.0		1.0		ug/L			02/03/20 16:46	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 16:46	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 16:46	1
Trichloroethene	<1.0		1.0		ug/L			02/03/20 16:46	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/03/20 16:46	1
Vinyl chloride	<1.0		1.0		ug/L			02/03/20 16:46	1
Xylenes, Total	<10		10		ug/L			02/03/20 16:46	1

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Client Sample ID: TW-9

Date Collected: 01/30/20 08:20
Date Received: 01/31/20 08:45

Lab Sample ID: 400-183312-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<1.0		1.0		ug/L			02/03/20 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*78 - 118*		*02/03/20 16:46*	*1*
Dibromofluoromethane	*95*		*81 - 121*		*02/03/20 16:46*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*02/03/20 16:46*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			02/05/20 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*105*		*78 - 119*		*02/05/20 01:21*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<110		110		ug/L		02/04/20 10:02	02/05/20 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*62*		*40 - 140*	*02/04/20 10:02*	*02/05/20 18:37*	*1*

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Client Sample ID: TW-10

Date Collected: 01/30/20 10:45
Date Received: 01/31/20 08:45

Lab Sample ID: 400-183312-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			02/03/20 17:14	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/03/20 17:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/03/20 17:14	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/03/20 17:14	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/03/20 17:14	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/03/20 17:14	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 17:14	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 17:14	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/03/20 17:14	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 17:14	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/03/20 17:14	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/03/20 17:14	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 17:14	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 17:14	1
2-Hexanone	<25		25		ug/L			02/03/20 17:14	1
Acetone	<25		25		ug/L			02/03/20 17:14	1
Benzene	<1.0		1.0		ug/L			02/03/20 17:14	1
Bromodichloromethane	<1.0		1.0		ug/L			02/03/20 17:14	1
Bromoform	<5.0		5.0		ug/L			02/03/20 17:14	1
Bromomethane	<1.0		1.0		ug/L			02/03/20 17:14	1
Carbon disulfide	<1.0		1.0		ug/L			02/03/20 17:14	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/03/20 17:14	1
Chlorobenzene	<1.0		1.0		ug/L			02/03/20 17:14	1
Chlorobromomethane	<1.0		1.0		ug/L			02/03/20 17:14	1
Chloroethane	<1.0		1.0		ug/L			02/03/20 17:14	1
Chloroform	<1.0		1.0		ug/L			02/03/20 17:14	1
Chloromethane	<1.0		1.0		ug/L			02/03/20 17:14	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 17:14	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 17:14	1
Cyclohexane	<1.0		1.0		ug/L			02/03/20 17:14	1
Dibromochloromethane	<1.0		1.0		ug/L			02/03/20 17:14	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/03/20 17:14	1
Ethylbenzene	<1.0		1.0		ug/L			02/03/20 17:14	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/03/20 17:14	1
Isopropylbenzene	<1.0		1.0		ug/L			02/03/20 17:14	1
Methyl acetate	<5.0		5.0		ug/L			02/03/20 17:14	1
Methyl Ethyl Ketone	<25		25		ug/L			02/03/20 17:14	1
methyl isobutyl ketone	<25		25		ug/L			02/03/20 17:14	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			02/03/20 17:14	1
Methylene Chloride	<5.0		5.0		ug/L			02/03/20 17:14	1
Styrene	<1.0		1.0		ug/L			02/03/20 17:14	1
Tetrachloroethene	**7.2**		1.0		ug/L			02/03/20 17:14	1
Toluene	<1.0		1.0		ug/L			02/03/20 17:14	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 17:14	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 17:14	1
Trichloroethene	<1.0		1.0		ug/L			02/03/20 17:14	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/03/20 17:14	1
Vinyl chloride	<1.0		1.0		ug/L			02/03/20 17:14	1
Xylenes, Total	<10		10		ug/L			02/03/20 17:14	1

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Client Sample ID: TW-10

Date Collected: 01/30/20 10:45
Date Received: 01/31/20 08:45

Lab Sample ID: 400-183312-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<1.0		1.0		ug/L			02/03/20 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*78 - 118*		*02/03/20 17:14*	*1*
Dibromofluoromethane	*95*		*81 - 121*		*02/03/20 17:14*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*		*02/03/20 17:14*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			02/05/20 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*78 - 119*		*02/05/20 01:50*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<110		110		ug/L		02/04/20 10:02	02/05/20 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*55*		*40 - 140*	*02/04/20 10:02*	*02/05/20 18:49*	*1*

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Client Sample ID: TW-11
Date Collected: 01/30/20 11:45
Date Received: 01/31/20 08:45

Lab Sample ID: 400-183312-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			02/03/20 17:42	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/03/20 17:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/03/20 17:42	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/03/20 17:42	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/03/20 17:42	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/03/20 17:42	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 17:42	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 17:42	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/03/20 17:42	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 17:42	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/03/20 17:42	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/03/20 17:42	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 17:42	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 17:42	1
2-Hexanone	<25		25		ug/L			02/03/20 17:42	1
Acetone	<25		25		ug/L			02/03/20 17:42	1
Benzene	<1.0		1.0		ug/L			02/03/20 17:42	1
Bromodichloromethane	<1.0		1.0		ug/L			02/03/20 17:42	1
Bromoform	<5.0		5.0		ug/L			02/03/20 17:42	1
Bromomethane	<1.0		1.0		ug/L			02/03/20 17:42	1
Carbon disulfide	<1.0		1.0		ug/L			02/03/20 17:42	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/03/20 17:42	1
Chlorobenzene	<1.0		1.0		ug/L			02/03/20 17:42	1
Chlorobromomethane	<1.0		1.0		ug/L			02/03/20 17:42	1
Chloroethane	<1.0		1.0		ug/L			02/03/20 17:42	1
Chloroform	<1.0		1.0		ug/L			02/03/20 17:42	1
Chloromethane	<1.0		1.0		ug/L			02/03/20 17:42	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 17:42	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 17:42	1
Cyclohexane	<1.0		1.0		ug/L			02/03/20 17:42	1
Dibromochloromethane	<1.0		1.0		ug/L			02/03/20 17:42	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/03/20 17:42	1
Ethylbenzene	<1.0		1.0		ug/L			02/03/20 17:42	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/03/20 17:42	1
Isopropylbenzene	<1.0		1.0		ug/L			02/03/20 17:42	1
Methyl acetate	<5.0		5.0		ug/L			02/03/20 17:42	1
Methyl Ethyl Ketone	<25		25		ug/L			02/03/20 17:42	1
methyl isobutyl ketone	<25		25		ug/L			02/03/20 17:42	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			02/03/20 17:42	1
Methylene Chloride	<5.0		5.0		ug/L			02/03/20 17:42	1
Styrene	<1.0		1.0		ug/L			02/03/20 17:42	1
Tetrachloroethene	<1.0		1.0		ug/L			02/03/20 17:42	1
Toluene	<1.0		1.0		ug/L			02/03/20 17:42	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 17:42	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 17:42	1
Trichloroethene	<1.0		1.0		ug/L			02/03/20 17:42	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/03/20 17:42	1
Vinyl chloride	<1.0		1.0		ug/L			02/03/20 17:42	1
Xylenes, Total	<10		10		ug/L			02/03/20 17:42	1

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Client Sample ID: TW-11

Date Collected: 01/30/20 11:45
Date Received: 01/31/20 08:45

Lab Sample ID: 400-183312-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<1.0		1.0		ug/L			02/03/20 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*78 - 118*		*02/03/20 17:42*	*1*
Dibromofluoromethane	*95*		*81 - 121*		*02/03/20 17:42*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*		*02/03/20 17:42*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			02/05/20 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*105*		*78 - 119*		*02/05/20 02:18*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**760**		110		ug/L		02/04/20 10:02	02/05/20 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*75*		*40 - 140*	*02/04/20 10:02*	*02/05/20 19:01*	*1*

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Client Sample ID: TW-12
Date Collected: 01/30/20 12:35
Date Received: 01/31/20 08:45

Lab Sample ID: 400-183312-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			02/03/20 18:09	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/03/20 18:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/03/20 18:09	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/03/20 18:09	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/03/20 18:09	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/03/20 18:09	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 18:09	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 18:09	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/03/20 18:09	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 18:09	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/03/20 18:09	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/03/20 18:09	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 18:09	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 18:09	1
2-Hexanone	<25		25		ug/L			02/03/20 18:09	1
Acetone	<25		25		ug/L			02/03/20 18:09	1
Benzene	<1.0		1.0		ug/L			02/03/20 18:09	1
Bromodichloromethane	<1.0		1.0		ug/L			02/03/20 18:09	1
Bromoform	<5.0		5.0		ug/L			02/03/20 18:09	1
Bromomethane	<1.0		1.0		ug/L			02/03/20 18:09	1
Carbon disulfide	<1.0		1.0		ug/L			02/03/20 18:09	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/03/20 18:09	1
Chlorobenzene	<1.0		1.0		ug/L			02/03/20 18:09	1
Chlorobromomethane	<1.0		1.0		ug/L			02/03/20 18:09	1
Chloroethane	<1.0		1.0		ug/L			02/03/20 18:09	1
Chloroform	<1.0		1.0		ug/L			02/03/20 18:09	1
Chloromethane	<1.0		1.0		ug/L			02/03/20 18:09	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 18:09	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 18:09	1
Cyclohexane	<1.0		1.0		ug/L			02/03/20 18:09	1
Dibromochloromethane	<1.0		1.0		ug/L			02/03/20 18:09	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/03/20 18:09	1
Ethylbenzene	<1.0		1.0		ug/L			02/03/20 18:09	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/03/20 18:09	1
Isopropylbenzene	<1.0		1.0		ug/L			02/03/20 18:09	1
Methyl acetate	<5.0		5.0		ug/L			02/03/20 18:09	1
Methyl Ethyl Ketone	<25		25		ug/L			02/03/20 18:09	1
methyl isobutyl ketone	<25		25		ug/L			02/03/20 18:09	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			02/03/20 18:09	1
Methylene Chloride	<5.0		5.0		ug/L			02/03/20 18:09	1
Styrene	<1.0		1.0		ug/L			02/03/20 18:09	1
Tetrachloroethene	<1.0		1.0		ug/L			02/03/20 18:09	1
Toluene	<1.0		1.0		ug/L			02/03/20 18:09	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 18:09	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 18:09	1
Trichloroethene	<1.0		1.0		ug/L			02/03/20 18:09	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/03/20 18:09	1
Vinyl chloride	<1.0		1.0		ug/L			02/03/20 18:09	1
Xylenes, Total	<10		10		ug/L			02/03/20 18:09	1

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Client Sample ID: TW-12

Date Collected: 01/30/20 12:35
Date Received: 01/31/20 08:45

Lab Sample ID: 400-183312-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<1.0		1.0		ug/L			02/03/20 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*78 - 118*		*02/03/20 18:09*	*1*
Dibromofluoromethane	*95*		*81 - 121*		*02/03/20 18:09*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*		*02/03/20 18:09*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			02/05/20 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*105*		*78 - 119*		*02/05/20 02:47*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<110		110		ug/L		02/04/20 10:02	02/05/20 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*78*		*40 - 140*	*02/04/20 10:02*	*02/05/20 19:13*	*1*

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Client Sample ID: TW-13

Date Collected: 01/30/20 13:33
Date Received: 01/31/20 08:45

Lab Sample ID: 400-183312-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			02/03/20 18:37	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/03/20 18:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/03/20 18:37	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/03/20 18:37	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/03/20 18:37	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/03/20 18:37	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 18:37	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 18:37	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/03/20 18:37	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 18:37	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/03/20 18:37	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/03/20 18:37	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 18:37	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 18:37	1
2-Hexanone	<25		25		ug/L			02/03/20 18:37	1
Acetone	<25		25		ug/L			02/03/20 18:37	1
Benzene	<1.0		1.0		ug/L			02/03/20 18:37	1
Bromodichloromethane	<1.0		1.0		ug/L			02/03/20 18:37	1
Bromoform	<5.0		5.0		ug/L			02/03/20 18:37	1
Bromomethane	<1.0		1.0		ug/L			02/03/20 18:37	1
Carbon disulfide	<1.0		1.0		ug/L			02/03/20 18:37	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/03/20 18:37	1
Chlorobenzene	<1.0		1.0		ug/L			02/03/20 18:37	1
Chlorobromomethane	<1.0		1.0		ug/L			02/03/20 18:37	1
Chloroethane	<1.0		1.0		ug/L			02/03/20 18:37	1
Chloroform	<1.0		1.0		ug/L			02/03/20 18:37	1
Chloromethane	<1.0		1.0		ug/L			02/03/20 18:37	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 18:37	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 18:37	1
Cyclohexane	<1.0		1.0		ug/L			02/03/20 18:37	1
Dibromochloromethane	<1.0		1.0		ug/L			02/03/20 18:37	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/03/20 18:37	1
Ethylbenzene	<1.0		1.0		ug/L			02/03/20 18:37	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/03/20 18:37	1
Isopropylbenzene	<1.0		1.0		ug/L			02/03/20 18:37	1
Methyl acetate	<5.0		5.0		ug/L			02/03/20 18:37	1
Methyl Ethyl Ketone	<25		25		ug/L			02/03/20 18:37	1
methyl isobutyl ketone	<25		25		ug/L			02/03/20 18:37	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			02/03/20 18:37	1
Methylene Chloride	<5.0		5.0		ug/L			02/03/20 18:37	1
Styrene	<1.0		1.0		ug/L			02/03/20 18:37	1
Tetrachloroethene	<1.0		1.0		ug/L			02/03/20 18:37	1
Toluene	<1.0		1.0		ug/L			02/03/20 18:37	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 18:37	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 18:37	1
Trichloroethene	<1.0		1.0		ug/L			02/03/20 18:37	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/03/20 18:37	1
Vinyl chloride	<1.0		1.0		ug/L			02/03/20 18:37	1
Xylenes, Total	<10		10		ug/L			02/03/20 18:37	1

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Client Sample ID: TW-13

Date Collected: 01/30/20 13:33
Date Received: 01/31/20 08:45

Lab Sample ID: 400-183312-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<1.0		1.0		ug/L			02/03/20 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*78 - 118*		*02/03/20 18:37*	*1*
Dibromofluoromethane	*97*		*81 - 121*		*02/03/20 18:37*	*1*
Toluene-d8 (Surr)	*112*		*80 - 120*		*02/03/20 18:37*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			02/05/20 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*105*		*78 - 119*		*02/05/20 03:15*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<110		110		ug/L		02/04/20 10:02	02/05/20 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*72*		*40 - 140*	*02/04/20 10:02*	*02/05/20 19:25*	*1*

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-476386/5
Matrix: Water
Analysis Batch: 476386

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		1.0		ug/L			02/03/20 13:33	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/03/20 13:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/03/20 13:33	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/03/20 13:33	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/03/20 13:33	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/03/20 13:33	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 13:33	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/03/20 13:33	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/03/20 13:33	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 13:33	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/03/20 13:33	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/03/20 13:33	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 13:33	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/03/20 13:33	1
2-Hexanone	<25		25		ug/L			02/03/20 13:33	1
Acetone	<25		25		ug/L			02/03/20 13:33	1
Benzene	<1.0		1.0		ug/L			02/03/20 13:33	1
Bromodichloromethane	<1.0		1.0		ug/L			02/03/20 13:33	1
Bromoform	<5.0		5.0		ug/L			02/03/20 13:33	1
Bromomethane	<1.0		1.0		ug/L			02/03/20 13:33	1
Carbon disulfide	<1.0		1.0		ug/L			02/03/20 13:33	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/03/20 13:33	1
Chlorobenzene	<1.0		1.0		ug/L			02/03/20 13:33	1
Chlorobromomethane	<1.0		1.0		ug/L			02/03/20 13:33	1
Chloroethane	<1.0		1.0		ug/L			02/03/20 13:33	1
Chloroform	<1.0		1.0		ug/L			02/03/20 13:33	1
Chloromethane	<1.0		1.0		ug/L			02/03/20 13:33	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 13:33	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 13:33	1
Cyclohexane	<1.0		1.0		ug/L			02/03/20 13:33	1
Dibromochloromethane	<1.0		1.0		ug/L			02/03/20 13:33	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/03/20 13:33	1
Ethylbenzene	<1.0		1.0		ug/L			02/03/20 13:33	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/03/20 13:33	1
Isopropylbenzene	<1.0		1.0		ug/L			02/03/20 13:33	1
Methyl acetate	<5.0		5.0		ug/L			02/03/20 13:33	1
Methyl Ethyl Ketone	<25		25		ug/L			02/03/20 13:33	1
methyl isobutyl ketone	<25		25		ug/L			02/03/20 13:33	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			02/03/20 13:33	1
Methylene Chloride	<5.0		5.0		ug/L			02/03/20 13:33	1
Styrene	<1.0		1.0		ug/L			02/03/20 13:33	1
Tetrachloroethene	<1.0		1.0		ug/L			02/03/20 13:33	1
Toluene	<1.0		1.0		ug/L			02/03/20 13:33	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/03/20 13:33	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/03/20 13:33	1
Trichloroethene	<1.0		1.0		ug/L			02/03/20 13:33	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/03/20 13:33	1
Vinyl chloride	<1.0		1.0		ug/L			02/03/20 13:33	1

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

Lab Sample ID: MB 400-476386/5
Matrix: Water
Analysis Batch: 476386

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<10		10		ug/L			02/03/20 13:33	1
Naphthalene	<1.0		1.0		ug/L			02/03/20 13:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*78 - 118*		*02/03/20 13:33*	*1*
Dibromofluoromethane	*88*		*81 - 121*		*02/03/20 13:33*	*1*
Toluene-d8 (Surr)	*113*		*80 - 120*		*02/03/20 13:33*	*1*

Lab Sample ID: LCS 400-476386/1002
Matrix: Water
Analysis Batch: 476386

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	50.0	45.4		ug/L		91	68 - 130
1,1,2,2-Tetrachloroethane	50.0	50.5		ug/L		101	70 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.5		ug/L		93	60 - 139
1,1,2-Trichloroethane	50.0	47.5		ug/L		95	70 - 130
1,1-Dichloroethane	50.0	40.2		ug/L		80	70 - 130
1,1-Dichloroethene	50.0	41.4		ug/L		83	63 - 134
1,2,3-Trichlorobenzene	50.0	42.3		ug/L		85	60 - 138
1,2,4-Trichlorobenzene	50.0	43.2		ug/L		86	60 - 140
1,2-Dibromo-3-Chloropropane	50.0	37.9		ug/L		76	54 - 135
1,2-Dichlorobenzene	50.0	44.4		ug/L		89	67 - 130
1,2-Dichloroethane	50.0	44.6		ug/L		89	69 - 130
1,2-Dichloropropane	50.0	41.1		ug/L		82	70 - 130
1,3-Dichlorobenzene	50.0	44.2		ug/L		88	70 - 130
1,4-Dichlorobenzene	50.0	42.6		ug/L		85	70 - 130
2-Hexanone	200	202		ug/L		101	65 - 137
Acetone	200	202		ug/L		101	43 - 160
Benzene	50.0	44.0		ug/L		88	70 - 130
Bromodichloromethane	50.0	44.1		ug/L		88	67 - 133
Bromoform	50.0	40.3		ug/L		81	57 - 140
Bromomethane	50.0	40.0		ug/L		80	10 - 160
Carbon disulfide	50.0	44.9		ug/L		90	61 - 137
Carbon tetrachloride	50.0	41.1		ug/L		82	61 - 137
Chlorobenzene	50.0	45.7		ug/L		91	70 - 130
Chlorobromomethane	50.0	35.9		ug/L		72	70 - 130
Chloroethane	50.0	39.5		ug/L		79	55 - 141
Chloroform	50.0	41.5		ug/L		83	69 - 130
Chloromethane	50.0	39.3		ug/L		79	58 - 137
cis-1,2-Dichloroethene	50.0	40.8		ug/L		82	68 - 130
cis-1,3-Dichloropropene	50.0	45.8		ug/L		92	69 - 132
Cyclohexane	50.0	40.2		ug/L		80	70 - 130
Dibromochloromethane	50.0	41.4		ug/L		83	67 - 135
Dichlorodifluoromethane	50.0	50.2		ug/L		100	41 - 146
Ethylbenzene	50.0	49.4		ug/L		99	70 - 130
Ethylene Dibromide	50.0	45.8		ug/L		92	70 - 130
Isopropylbenzene	50.0	47.1		ug/L		94	70 - 130

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

Lab Sample ID: LCS 400-476386/1002
Matrix: Water
Analysis Batch: 476386

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl acetate	100	91.5		ug/L		92	45 - 159
Methyl Ethyl Ketone	200	171		ug/L		85	61 - 145
methyl isobutyl ketone	200	180		ug/L		90	69 - 138
Methyl tert-butyl ether	50.0	44.9		ug/L		90	66 - 130
Methylene Chloride	50.0	43.8		ug/L		88	66 - 135
Styrene	50.0	47.7		ug/L		95	70 - 130
Tetrachloroethene	50.0	42.2		ug/L		84	65 - 130
Toluene	50.0	47.9		ug/L		96	70 - 130
trans-1,2-Dichloroethene	50.0	42.3		ug/L		85	70 - 130
trans-1,3-Dichloropropene	50.0	50.5		ug/L		101	63 - 130
Trichloroethene	50.0	41.5		ug/L		83	70 - 130
Trichlorofluoromethane	50.0	43.2		ug/L		86	65 - 138
Vinyl chloride	50.0	41.2		ug/L		82	59 - 136
Xylenes, Total	100	97.9		ug/L		98	70 - 130
Naphthalene	50.0	44.6		ug/L		89	47 - 149

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*78 - 118*
Dibromofluoromethane	*95*		*81 - 121*
Toluene-d8 (Surr)	*113*		*80 - 120*

Lab Sample ID: 400-183312-1 MS
Matrix: Water
Analysis Batch: 476386

Client Sample ID: TW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<1.0		50.0	44.6		ug/L		89	57 - 142
1,1,2,2-Tetrachloroethane	<1.0		50.0	52.7		ug/L		105	66 - 135
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		50.0	47.9		ug/L		96	55 - 150
1,1,2-Trichloroethane	<5.0		50.0	49.7		ug/L		99	66 - 131
1,1-Dichloroethane	<1.0		50.0	41.4		ug/L		83	61 - 144
1,1-Dichloroethene	<1.0		50.0	42.0		ug/L		84	54 - 147
1,2,3-Trichlorobenzene	<1.0		50.0	39.4		ug/L		79	43 - 145
1,2,4-Trichlorobenzene	<1.0		50.0	40.7		ug/L		81	39 - 148
1,2-Dibromo-3-Chloropropane	<5.0		50.0	39.6		ug/L		79	45 - 135
1,2-Dichlorobenzene	<1.0		50.0	43.7		ug/L		87	52 - 137
1,2-Dichloroethane	<1.0		50.0	45.3		ug/L		91	60 - 141
1,2-Dichloropropane	<1.0		50.0	41.4		ug/L		83	66 - 137
1,3-Dichlorobenzene	<1.0		50.0	43.3		ug/L		87	54 - 135
1,4-Dichlorobenzene	<1.0		50.0	41.2		ug/L		82	53 - 135
2-Hexanone	<25		200	204		ug/L		102	65 - 140
Acetone	<25		200	187		ug/L		94	43 - 150
Benzene	<1.0		50.0	43.7		ug/L		87	56 - 142
Bromodichloromethane	<1.0		50.0	44.7		ug/L		89	59 - 143
Bromoform	<5.0		50.0	40.9		ug/L		82	50 - 140
Bromomethane	<1.0		50.0	36.8		ug/L		74	10 - 150
Carbon disulfide	<1.0		50.0	44.9		ug/L		90	48 - 150
Carbon tetrachloride	<1.0		50.0	41.8		ug/L		84	55 - 145

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

Lab Sample ID: 400-183312-1 MS
Matrix: Water
Analysis Batch: 476386

Client Sample ID: TW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	<1.0		50.0	44.5		ug/L		89	64 - 130
Chlorobromomethane	<1.0		50.0	36.9		ug/L		74	64 - 140
Chloroethane	<1.0		50.0	39.9		ug/L		80	50 - 150
Chloroform	<1.0		50.0	38.8		ug/L		78	60 - 141
Chloromethane	<1.0		50.0	38.1		ug/L		76	49 - 148
cis-1,2-Dichloroethene	<1.0		50.0	41.2		ug/L		82	59 - 143
cis-1,3-Dichloropropene	<5.0		50.0	47.2		ug/L		94	57 - 140
Cyclohexane	<1.0		50.0	44.1		ug/L		88	58 - 141
Dibromochloromethane	<1.0		50.0	41.3		ug/L		83	56 - 143
Dichlorodifluoromethane	<1.0		50.0	51.5		ug/L		103	16 - 150
Ethylbenzene	<1.0		50.0	48.0		ug/L		96	58 - 131
Ethylene Dibromide	<1.0		50.0	47.3		ug/L		95	64 - 132
Isopropylbenzene	<1.0		50.0	44.0		ug/L		88	56 - 133
Methyl acetate	<5.0		100	93.1		ug/L		93	21 - 150
Methyl Ethyl Ketone	<25		200	168		ug/L		84	55 - 150
methyl isobutyl ketone	<25		200	182		ug/L		91	63 - 146
Methyl tert-butyl ether	<1.0		50.0	45.5		ug/L		91	59 - 137
Methylene Chloride	<5.0		50.0	41.4		ug/L		83	60 - 146
Styrene	<1.0		50.0	46.3		ug/L		93	58 - 131
Tetrachloroethene	<1.0		50.0	39.4		ug/L		79	52 - 133
Toluene	<1.0		50.0	47.1		ug/L		94	65 - 130
trans-1,2-Dichloroethene	<1.0		50.0	42.6		ug/L		85	61 - 143
trans-1,3-Dichloropropene	<5.0		50.0	50.5		ug/L		101	53 - 133
Trichloroethene	<1.0		50.0	40.7		ug/L		81	64 - 136
Trichlorofluoromethane	<1.0		50.0	45.4		ug/L		91	54 - 150
Vinyl chloride	<1.0		50.0	41.1		ug/L		82	46 - 150
Xylenes, Total	<10		100	92.8		ug/L		93	59 - 130
Naphthalene	<1.0		50.0	44.1		ug/L		88	25 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*78 - 118*
Dibromofluoromethane	*97*		*81 - 121*
Toluene-d8 (Surr)	*112*		*80 - 120*

Lab Sample ID: 400-183312-1 MSD
Matrix: Water
Analysis Batch: 476386

Client Sample ID: TW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<1.0		50.0	43.9		ug/L		88	57 - 142	1	30
1,1,2,2-Tetrachloroethane	<1.0		50.0	51.6		ug/L		103	66 - 135	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		50.0	48.5		ug/L		97	55 - 150	1	30
1,1,2-Trichloroethane	<5.0		50.0	49.9		ug/L		100	66 - 131	0	30
1,1-Dichloroethane	<1.0		50.0	39.8		ug/L		80	61 - 144	4	30
1,1-Dichloroethene	<1.0		50.0	40.1		ug/L		80	54 - 147	4	30
1,2,3-Trichlorobenzene	<1.0		50.0	35.9		ug/L		72	43 - 145	9	30
1,2,4-Trichlorobenzene	<1.0		50.0	36.7		ug/L		73	39 - 148	10	30
1,2-Dibromo-3-Chloropropane	<5.0		50.0	42.8		ug/L		86	45 - 135	8	30

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

Lab Sample ID: 400-183312-1 MSD
Matrix: Water
Analysis Batch: 476386

Client Sample ID: TW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	<1.0		50.0	39.4		ug/L		79	52 - 137	10	30
1,2-Dichloroethane	<1.0		50.0	45.4		ug/L		91	60 - 141	0	30
1,2-Dichloropropane	<1.0		50.0	40.8		ug/L		82	66 - 137	1	30
1,3-Dichlorobenzene	<1.0		50.0	38.0		ug/L		76	54 - 135	13	30
1,4-Dichlorobenzene	<1.0		50.0	35.4		ug/L		71	53 - 135	15	30
2-Hexanone	<25		200	206		ug/L		103	65 - 140	1	30
Acetone	<25		200	175		ug/L		87	43 - 150	7	30
Benzene	<1.0		50.0	42.2		ug/L		84	56 - 142	4	30
Bromodichloromethane	<1.0		50.0	41.3		ug/L		83	59 - 143	8	30
Bromoform	<5.0		50.0	40.5		ug/L		81	50 - 140	1	30
Bromomethane	<1.0		50.0	34.8		ug/L		70	10 - 150	6	50
Carbon disulfide	<1.0		50.0	43.7		ug/L		87	48 - 150	3	30
Carbon tetrachloride	<1.0		50.0	39.8		ug/L		80	55 - 145	5	30
Chlorobenzene	<1.0		50.0	40.9		ug/L		82	64 - 130	8	30
Chlorobromomethane	<1.0		50.0	35.0		ug/L		70	64 - 140	5	30
Chloroethane	<1.0		50.0	40.7		ug/L		81	50 - 150	2	30
Chloroform	<1.0		50.0	37.6		ug/L		75	60 - 141	3	30
Chloromethane	<1.0		50.0	38.0		ug/L		76	49 - 148	0	31
cis-1,2-Dichloroethene	<1.0		50.0	41.2		ug/L		82	59 - 143	0	30
cis-1,3-Dichloropropene	<5.0		50.0	43.4		ug/L		87	57 - 140	8	30
Cyclohexane	<1.0		50.0	40.2		ug/L		80	58 - 141	9	30
Dibromochloromethane	<1.0		50.0	41.3		ug/L		83	56 - 143	0	30
Dichlorodifluoromethane	<1.0		50.0	49.7		ug/L		99	16 - 150	4	31
Ethylbenzene	<1.0		50.0	42.4		ug/L		85	58 - 131	13	30
Ethylene Dibromide	<1.0		50.0	44.4		ug/L		89	64 - 132	6	30
Isopropylbenzene	<1.0		50.0	38.9		ug/L		78	56 - 133	12	30
Methyl acetate	<5.0		100	94.7		ug/L		95	21 - 150	2	30
Methyl Ethyl Ketone	<25		200	170		ug/L		85	55 - 150	1	30
methyl isobutyl ketone	<25		200	181		ug/L		90	63 - 146	1	30
Methyl tert-butyl ether	<1.0		50.0	44.7		ug/L		89	59 - 137	2	30
Methylene Chloride	<5.0		50.0	44.3		ug/L		89	60 - 146	7	32
Styrene	<1.0		50.0	41.4		ug/L		83	58 - 131	11	30
Tetrachloroethene	<1.0		50.0	35.7		ug/L		71	52 - 133	10	30
Toluene	<1.0		50.0	44.4		ug/L		89	65 - 130	6	30
trans-1,2-Dichloroethene	<1.0		50.0	39.8		ug/L		80	61 - 143	7	30
trans-1,3-Dichloropropene	<5.0		50.0	47.6		ug/L		95	53 - 133	6	30
Trichloroethene	<1.0		50.0	38.3		ug/L		77	64 - 136	6	30
Trichlorofluoromethane	<1.0		50.0	43.7		ug/L		87	54 - 150	4	30
Vinyl chloride	<1.0		50.0	41.7		ug/L		83	46 - 150	2	30
Xylenes, Total	<10		100	83.0		ug/L		83	59 - 130	11	30
Naphthalene	<1.0		50.0	43.3		ug/L		87	25 - 150	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*111*		*78 - 118*
Dibromofluoromethane	*92*		*81 - 121*
Toluene-d8 (Surr)	*110*		*80 - 120*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 400-476573/4
Matrix: Water
Analysis Batch: 476573

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			02/04/20 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*104*		*78 - 119*		*02/04/20 11:39*	*1*

Lab Sample ID: LCS 400-476573/1003
Matrix: Water
Analysis Batch: 476573

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	1000	1010		ug/L		101	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*102*		*78 - 119*

Lab Sample ID: 560-84840-A-3 MS
Matrix: Water
Analysis Batch: 476573

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	<100		1000	1080		ug/L		108	35 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*100*		*78 - 119*

Lab Sample ID: 560-84840-A-3 MSD
Matrix: Water
Analysis Batch: 476573

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	<100		1000	1120		ug/L		112	35 - 150	3	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*102*		*78 - 119*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 400-476555/1-A
Matrix: Water
Analysis Batch: 476785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 476555

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<130		130		ug/L		02/04/20 10:02	02/05/20 16:15	1

Method: 8015C - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 400-476555/1-A
Matrix: Water
Analysis Batch: 476785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 476555

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	57		40 - 140	02/04/20 10:02	02/05/20 16:15	1

Lab Sample ID: LCS 400-476555/2-A
Matrix: Water
Analysis Batch: 476785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 476555

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			17000	11000		ug/L		64	40 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	66		40 - 140

Lab Sample ID: LCSD 400-476555/3-A
Matrix: Water
Analysis Batch: 476785

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 476555

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			17000	11100		ug/L		65	40 - 120	1	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl (Surr)	73		40 - 140

QC Association Summary

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

GC/MS VOA

Analysis Batch: 476386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183312-1	TW-8	Total/NA	Water	8260B	
400-183312-2	TW-9	Total/NA	Water	8260B	
400-183312-3	TW-10	Total/NA	Water	8260B	
400-183312-4	TW-11	Total/NA	Water	8260B	
400-183312-5	TW-12	Total/NA	Water	8260B	
400-183312-6	TW-13	Total/NA	Water	8260B	
MB 400-476386/5	Method Blank	Total/NA	Water	8260B	
LCS 400-476386/1002	Lab Control Sample	Total/NA	Water	8260B	
400-183312-1 MS	TW-8	Total/NA	Water	8260B	
400-183312-1 MSD	TW-8	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 476573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183312-1	TW-8	Total/NA	Water	8015C	
400-183312-2	TW-9	Total/NA	Water	8015C	
400-183312-3	TW-10	Total/NA	Water	8015C	
400-183312-4	TW-11	Total/NA	Water	8015C	
400-183312-5	TW-12	Total/NA	Water	8015C	
400-183312-6	TW-13	Total/NA	Water	8015C	
MB 400-476573/4	Method Blank	Total/NA	Water	8015C	
LCS 400-476573/1003	Lab Control Sample	Total/NA	Water	8015C	
560-84840-A-3 MS	Matrix Spike	Total/NA	Water	8015C	
560-84840-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 476555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183312-1	TW-8	Total/NA	Water	3510C	
400-183312-2	TW-9	Total/NA	Water	3510C	
400-183312-3	TW-10	Total/NA	Water	3510C	
400-183312-4	TW-11	Total/NA	Water	3510C	
400-183312-5	TW-12	Total/NA	Water	3510C	
400-183312-6	TW-13	Total/NA	Water	3510C	
MB 400-476555/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-476555/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-476555/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 476785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183312-1	TW-8	Total/NA	Water	8015C	476555
400-183312-2	TW-9	Total/NA	Water	8015C	476555
400-183312-3	TW-10	Total/NA	Water	8015C	476555
400-183312-4	TW-11	Total/NA	Water	8015C	476555
400-183312-5	TW-12	Total/NA	Water	8015C	476555
400-183312-6	TW-13	Total/NA	Water	8015C	476555
MB 400-476555/1-A	Method Blank	Total/NA	Water	8015C	476555
LCS 400-476555/2-A	Lab Control Sample	Total/NA	Water	8015C	476555
LCSD 400-476555/3-A	Lab Control Sample Dup	Total/NA	Water	8015C	476555

Lab Chronicle

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Client Sample ID: TW-8
Date Collected: 01/30/20 09:30
Date Received: 01/31/20 08:45

Lab Sample ID: 400-183312-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	476386	02/03/20 14:01	RS	TAL PEN
Total/NA	Analysis	8015C		1	476573	02/05/20 00:53	CMW	TAL PEN
Total/NA	Prep	3510C			476555	02/04/20 10:02	CAO	TAL PEN
Total/NA	Analysis	8015C		1	476785	02/05/20 18:13	JAW	TAL PEN

Client Sample ID: TW-9
Date Collected: 01/30/20 08:20
Date Received: 01/31/20 08:45

Lab Sample ID: 400-183312-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	476386	02/03/20 16:46	RS	TAL PEN
Total/NA	Analysis	8015C		1	476573	02/05/20 01:21	CMW	TAL PEN
Total/NA	Prep	3510C			476555	02/04/20 10:02	CAO	TAL PEN
Total/NA	Analysis	8015C		1	476785	02/05/20 18:37	JAW	TAL PEN

Client Sample ID: TW-10
Date Collected: 01/30/20 10:45
Date Received: 01/31/20 08:45

Lab Sample ID: 400-183312-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	476386	02/03/20 17:14	RS	TAL PEN
Total/NA	Analysis	8015C		1	476573	02/05/20 01:50	CMW	TAL PEN
Total/NA	Prep	3510C			476555	02/04/20 10:02	CAO	TAL PEN
Total/NA	Analysis	8015C		1	476785	02/05/20 18:49	JAW	TAL PEN

Client Sample ID: TW-11
Date Collected: 01/30/20 11:45
Date Received: 01/31/20 08:45

Lab Sample ID: 400-183312-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	476386	02/03/20 17:42	RS	TAL PEN
Total/NA	Analysis	8015C		1	476573	02/05/20 02:18	CMW	TAL PEN
Total/NA	Prep	3510C			476555	02/04/20 10:02	CAO	TAL PEN
Total/NA	Analysis	8015C		1	476785	02/05/20 19:01	JAW	TAL PEN

Client Sample ID: TW-12
Date Collected: 01/30/20 12:35
Date Received: 01/31/20 08:45

Lab Sample ID: 400-183312-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	476386	02/03/20 18:09	RS	TAL PEN
Total/NA	Analysis	8015C		1	476573	02/05/20 02:47	CMW	TAL PEN
Total/NA	Prep	3510C			476555	02/04/20 10:02	CAO	TAL PEN
Total/NA	Analysis	8015C		1	476785	02/05/20 19:13	JAW	TAL PEN

Lab Chronicle

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Client Sample ID: TW-13

Date Collected: 01/30/20 13:33
Date Received: 01/31/20 08:45

Lab Sample ID: 400-183312-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	476386	02/03/20 18:37	RS	TAL PEN
Total/NA	Analysis	8015C		1	476573	02/05/20 03:15	CMW	TAL PEN
Total/NA	Prep	3510C			476555	02/04/20 10:02	CAO	TAL PEN
Total/NA	Analysis	8015C		1	476785	02/05/20 19:25	JAW	TAL PEN

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Laboratory: Eurofins TestAmerica, Pensacola

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Virginia	NELAP	460166	06-14-20

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
8260B		Water	Cyclohexane
8260B		Water	Dibromofluoromethane

Method Summary

Client: SCS Engineers
Project/Site: St.Paul's

Job ID: 400-183312-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL PEN
8015C	Diesel Range Organics (DRO) (GC)	EPA	TAL PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL PEN
5030B	Purge and Trap	SW846	TAL PEN
5030C	Purge and Trap	SW846	TAL PEN

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 PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment TestAmerica

400-183312 COC

Client Information	Sampler: ALEXIS HOLCOMB	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-90970-33436.1
Client Contact: Alexis Holcomb	Phone: 703 869-1596	E-Mail: mark.swafford@testamericainc.com		Page: Page 1 of 2
Company: SCS Engineers				Job #:
Address: 2877 Guardian Lane Suite 1-F	Due Date Requested:			
City: Virginia Beach	TAT Requested (days): 10			
State, Zip: VA, 23452				
Phone: 787-201-9264	PO #: Purchase Order Requested			
Email: AHolcomb@scsengineers.com	WO #:			
Project Name: St.Paul's Sampling	Project #: 40005152			
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)	8015C_DRO - (MOD) DRO C10-C28	8015C_GRO - GRO (C6-C10)	8260B - TCL Volatiles	8082A - TCL PCBs by 8082A	8270D - TCL Semivolatiles	Total Number of containers	Special Instructions/Note:
Preservation Code:							A	A	A	N	N		
B-1				Water									
B-2				Water									
B-5				Water									
B-6				Water									
B-7				Water									
B-8 TW-8	1/30/20	930	G	Water			X	X	X				
B-9 TW-9	1/30/20	820	G	Water			X	X	X				
B-10 TW-10	1/30/20	1015	G	Water			X	X	X				
B-11 TW-11	1/30/20	1145	G	Water			X	X	X				
B-12 TW-12	1/30/20	1235	G	Water			X	X	X				
B-13 TW-13	1/30/20	1333	G	Water			X	X	X				

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		1/30/20 14:23			1/30/20 1423	ETA
2		1/30/20 1600	ETA		/	
3		/			1-30-20 0845	TA-PEN

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.5°C IR-8

Ver: 01/16/2019

Virginia Beach #202

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 400-183312-1

Login Number: 183312
List Number: 1
Creator: Conrady, Hank W

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	2.5°C IR-8
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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-183435-1
Client Project/Site: St. Paul's

For:
SCS Engineers
2877 Guardian Lane
Suite 1-F
Virginia Beach, Virginia 23452

Attn: Alexis Holcomb

Mark Swafford

Authorized for release by:
2/12/2020 2:21:56 PM

Mark Swafford, Project Manager II
(850)471-6207
mark.swafford@testamericainc.com

Table of Contents

Definitions/Glossary

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-183435-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

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
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 400-183435-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-183435-1

Comments
No additional comments.

Receipt
The samples were received on 2/4/2020 9:07 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 400-477459 recovered outside acceptance criteria, low biased, for Chloromethane and Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8260C: The laboratory control sample (LCS) for analytical batch 400-477459 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 400-477459 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane, Bromomethane, Chloroethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

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

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

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

Detection Summary

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-183435-1

Client Sample ID: TW-14 — Lab Sample ID: 400-183435-1

No Detections.

Client Sample ID: TW-15 — Lab Sample ID: 400-183435-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.9		1.0		ug/L	1		8260C	Total/NA
Cyclohexane	3.6		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	2.2		1.0		ug/L	1		8260C	Total/NA
Isopropylbenzene	3.2		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	1.7		1.0		ug/L	1		8260C	Total/NA
Methylcyclohexane	2.8		1.0		ug/L	1		8260C	Total/NA
Toluene	9.0		1.0		ug/L	1		8260C	Total/NA
Gasoline Range Organics (GRO) -C6-C10	500		100		ug/L	1		8015C	Total/NA
Diesel Range Organics [C10-C28]	300		110		ug/L	1		8015C	Total/NA

Client Sample ID: TW-16 — Lab Sample ID: 400-183435-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	170		120		ug/L	1		8015C	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-183435-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-183435-1	TW-14	Water	02/03/20 08:35	02/04/20 09:07	
400-183435-2	TW-15	Water	02/03/20 11:05	02/04/20 09:07	
400-183435-3	TW-16	Water	02/03/20 09:52	02/04/20 09:07	

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-183435-1

Client Sample ID: TW-14
Date Collected: 02/03/20 08:35
Date Received: 02/04/20 09:07

Lab Sample ID: 400-183435-1
Matrix: Water

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		1.0		ug/L			02/11/20 17:31	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/11/20 17:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/11/20 17:31	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/11/20 17:31	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/11/20 17:31	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/11/20 17:31	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/11/20 17:31	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/11/20 17:31	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/11/20 17:31	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/11/20 17:31	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/11/20 17:31	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/11/20 17:31	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/11/20 17:31	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/11/20 17:31	1
2-Butanone (MEK)	<25		25		ug/L			02/11/20 17:31	1
2-Hexanone	<25		25		ug/L			02/11/20 17:31	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			02/11/20 17:31	1
Acetone	<25		25		ug/L			02/11/20 17:31	1
Benzene	<1.0		1.0		ug/L			02/11/20 17:31	1
Bromoform	<5.0		5.0		ug/L			02/11/20 17:31	1
Bromomethane	<1.0	*	1.0		ug/L			02/11/20 17:31	1
Carbon disulfide	<1.0		1.0		ug/L			02/11/20 17:31	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/11/20 17:31	1
Chlorobenzene	<1.0		1.0		ug/L			02/11/20 17:31	1
Chlorobromomethane	<1.0		1.0		ug/L			02/11/20 17:31	1
Chlorodibromomethane	<1.0		1.0		ug/L			02/11/20 17:31	1
Chloroethane	<1.0		1.0		ug/L			02/11/20 17:31	1
Chloroform	<1.0		1.0		ug/L			02/11/20 17:31	1
Chloromethane	<1.0		1.0		ug/L			02/11/20 17:31	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/11/20 17:31	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/11/20 17:31	1
Cyclohexane	<1.0		1.0		ug/L			02/11/20 17:31	1
Dichlorobromomethane	<1.0		1.0		ug/L			02/11/20 17:31	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/11/20 17:31	1
Ethylbenzene	<1.0		1.0		ug/L			02/11/20 17:31	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/11/20 17:31	1
Isopropylbenzene	<1.0		1.0		ug/L			02/11/20 17:31	1
Methyl acetate	<5.0		5.0		ug/L			02/11/20 17:31	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			02/11/20 17:31	1
Methylcyclohexane	<1.0		1.0		ug/L			02/11/20 17:31	1
Methylene Chloride	<5.0		5.0		ug/L			02/11/20 17:31	1
Styrene	<1.0		1.0		ug/L			02/11/20 17:31	1
Tetrachloroethene	<1.0		1.0		ug/L			02/11/20 17:31	1
Toluene	<1.0		1.0		ug/L			02/11/20 17:31	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/11/20 17:31	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/11/20 17:31	1
Trichloroethene	<1.0		1.0		ug/L			02/11/20 17:31	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/11/20 17:31	1
Vinyl chloride	<1.0		1.0		ug/L			02/11/20 17:31	1

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-183435-1

Client Sample ID: TW-14
Date Collected: 02/03/20 08:35
Date Received: 02/04/20 09:07

Lab Sample ID: 400-183435-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<10		10		ug/L			02/11/20 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*78 - 118*		*02/11/20 17:31*	*1*
Dibromofluoromethane	*107*		*81 - 121*		*02/11/20 17:31*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*02/11/20 17:31*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			02/05/20 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*95*		*78 - 119*		*02/05/20 01:16*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<110		110		ug/L		02/05/20 10:32	02/06/20 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*51*		*40 - 140*	*02/05/20 10:32*	*02/06/20 23:58*	*1*

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-183435-1

Client Sample ID: TW-15

Date Collected: 02/03/20 11:05
Date Received: 02/04/20 09:07

Lab Sample ID: 400-183435-2

Matrix: Water

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		1.0		ug/L			02/11/20 17:55	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/11/20 17:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/11/20 17:55	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/11/20 17:55	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/11/20 17:55	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/11/20 17:55	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/11/20 17:55	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/11/20 17:55	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/11/20 17:55	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/11/20 17:55	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/11/20 17:55	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/11/20 17:55	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/11/20 17:55	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/11/20 17:55	1
2-Butanone (MEK)	<25		25		ug/L			02/11/20 17:55	1
2-Hexanone	<25		25		ug/L			02/11/20 17:55	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			02/11/20 17:55	1
Acetone	<25		25		ug/L			02/11/20 17:55	1
Benzene	**5.9**		1.0		ug/L			02/11/20 17:55	1
Bromoform	<5.0		5.0		ug/L			02/11/20 17:55	1
Bromomethane	<1.0	*	1.0		ug/L			02/11/20 17:55	1
Carbon disulfide	<1.0		1.0		ug/L			02/11/20 17:55	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/11/20 17:55	1
Chlorobenzene	<1.0		1.0		ug/L			02/11/20 17:55	1
Chlorobromomethane	<1.0		1.0		ug/L			02/11/20 17:55	1
Chlorodibromomethane	<1.0		1.0		ug/L			02/11/20 17:55	1
Chloroethane	<1.0		1.0		ug/L			02/11/20 17:55	1
Chloroform	<1.0		1.0		ug/L			02/11/20 17:55	1
Chloromethane	<1.0		1.0		ug/L			02/11/20 17:55	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/11/20 17:55	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/11/20 17:55	1
Cyclohexane	**3.6**		1.0		ug/L			02/11/20 17:55	1
Dichlorobromomethane	<1.0		1.0		ug/L			02/11/20 17:55	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/11/20 17:55	1
Ethylbenzene	**2.2**		1.0		ug/L			02/11/20 17:55	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/11/20 17:55	1
Isopropylbenzene	**3.2**		1.0		ug/L			02/11/20 17:55	1
Methyl acetate	<5.0		5.0		ug/L			02/11/20 17:55	1
Methyl tert-butyl ether	**1.7**		1.0		ug/L			02/11/20 17:55	1
Methylcyclohexane	**2.8**		1.0		ug/L			02/11/20 17:55	1
Methylene Chloride	<5.0		5.0		ug/L			02/11/20 17:55	1
Styrene	<1.0		1.0		ug/L			02/11/20 17:55	1
Tetrachloroethene	<1.0		1.0		ug/L			02/11/20 17:55	1
Toluene	**9.0**		1.0		ug/L			02/11/20 17:55	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/11/20 17:55	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/11/20 17:55	1
Trichloroethene	<1.0		1.0		ug/L			02/11/20 17:55	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/11/20 17:55	1
Vinyl chloride	<1.0		1.0		ug/L			02/11/20 17:55	1

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-183435-1

Client Sample ID: TW-15
Date Collected: 02/03/20 11:05
Date Received: 02/04/20 09:07

Lab Sample ID: 400-183435-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<10		10		ug/L			02/11/20 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*78 - 118*		*02/11/20 17:55*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*02/11/20 17:55*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*02/11/20 17:55*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	**500**		100		ug/L			02/05/20 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*105*		*78 - 119*		*02/05/20 01:48*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**300**		110		ug/L		02/05/20 10:32	02/07/20 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*52*		*40 - 140*	*02/05/20 10:32*	*02/07/20 00:10*	*1*

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-183435-1

Client Sample ID: TW-16
Date Collected: 02/03/20 09:52
Date Received: 02/04/20 09:07

Lab Sample ID: 400-183435-3
Matrix: Water

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		1.0		ug/L			02/11/20 18:19	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/11/20 18:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/11/20 18:19	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/11/20 18:19	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/11/20 18:19	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/11/20 18:19	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/11/20 18:19	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/11/20 18:19	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/11/20 18:19	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/11/20 18:19	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/11/20 18:19	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/11/20 18:19	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/11/20 18:19	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/11/20 18:19	1
2-Butanone (MEK)	<25		25		ug/L			02/11/20 18:19	1
2-Hexanone	<25		25		ug/L			02/11/20 18:19	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			02/11/20 18:19	1
Acetone	<25		25		ug/L			02/11/20 18:19	1
Benzene	<1.0		1.0		ug/L			02/11/20 18:19	1
Bromoform	<5.0		5.0		ug/L			02/11/20 18:19	1
Bromomethane	<1.0	*	1.0		ug/L			02/11/20 18:19	1
Carbon disulfide	<1.0		1.0		ug/L			02/11/20 18:19	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/11/20 18:19	1
Chlorobenzene	<1.0		1.0		ug/L			02/11/20 18:19	1
Chlorobromomethane	<1.0		1.0		ug/L			02/11/20 18:19	1
Chlorodibromomethane	<1.0		1.0		ug/L			02/11/20 18:19	1
Chloroethane	<1.0		1.0		ug/L			02/11/20 18:19	1
Chloroform	<1.0		1.0		ug/L			02/11/20 18:19	1
Chloromethane	<1.0		1.0		ug/L			02/11/20 18:19	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/11/20 18:19	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/11/20 18:19	1
Cyclohexane	<1.0		1.0		ug/L			02/11/20 18:19	1
Dichlorobromomethane	<1.0		1.0		ug/L			02/11/20 18:19	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/11/20 18:19	1
Ethylbenzene	<1.0		1.0		ug/L			02/11/20 18:19	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/11/20 18:19	1
Isopropylbenzene	<1.0		1.0		ug/L			02/11/20 18:19	1
Methyl acetate	<5.0		5.0		ug/L			02/11/20 18:19	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			02/11/20 18:19	1
Methylcyclohexane	<1.0		1.0		ug/L			02/11/20 18:19	1
Methylene Chloride	<5.0		5.0		ug/L			02/11/20 18:19	1
Styrene	<1.0		1.0		ug/L			02/11/20 18:19	1
Tetrachloroethene	<1.0		1.0		ug/L			02/11/20 18:19	1
Toluene	<1.0		1.0		ug/L			02/11/20 18:19	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/11/20 18:19	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/11/20 18:19	1
Trichloroethene	<1.0		1.0		ug/L			02/11/20 18:19	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/11/20 18:19	1
Vinyl chloride	<1.0		1.0		ug/L			02/11/20 18:19	1

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-183435-1

Client Sample ID: TW-16
Date Collected: 02/03/20 09:52
Date Received: 02/04/20 09:07

Lab Sample ID: 400-183435-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<10		10		ug/L			02/11/20 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*78 - 118*		*02/11/20 18:19*	*1*
Dibromofluoromethane	*105*		*81 - 121*		*02/11/20 18:19*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*02/11/20 18:19*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			02/05/20 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*94*		*78 - 119*		*02/05/20 02:19*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**170**		120		ug/L		02/05/20 10:32	02/07/20 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*59*		*40 - 140*	*02/05/20 10:32*	*02/07/20 00:33*	*1*

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-183435-1

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

Lab Sample ID: MB 400-477459/28
Matrix: Water
Analysis Batch: 477459

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		1.0		ug/L			02/11/20 13:04	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			02/11/20 13:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			02/11/20 13:04	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			02/11/20 13:04	1
1,1-Dichloroethane	<1.0		1.0		ug/L			02/11/20 13:04	1
1,1-Dichloroethene	<1.0		1.0		ug/L			02/11/20 13:04	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			02/11/20 13:04	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			02/11/20 13:04	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			02/11/20 13:04	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			02/11/20 13:04	1
1,2-Dichloroethane	<1.0		1.0		ug/L			02/11/20 13:04	1
1,2-Dichloropropane	<1.0		1.0		ug/L			02/11/20 13:04	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			02/11/20 13:04	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			02/11/20 13:04	1
2-Butanone (MEK)	<25		25		ug/L			02/11/20 13:04	1
2-Hexanone	<25		25		ug/L			02/11/20 13:04	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			02/11/20 13:04	1
Acetone	<25		25		ug/L			02/11/20 13:04	1
Benzene	<1.0		1.0		ug/L			02/11/20 13:04	1
Bromoform	<5.0		5.0		ug/L			02/11/20 13:04	1
Bromomethane	<1.0		1.0		ug/L			02/11/20 13:04	1
Carbon disulfide	<1.0		1.0		ug/L			02/11/20 13:04	1
Carbon tetrachloride	<1.0		1.0		ug/L			02/11/20 13:04	1
Chlorobenzene	<1.0		1.0		ug/L			02/11/20 13:04	1
Chlorobromomethane	<1.0		1.0		ug/L			02/11/20 13:04	1
Chlorodibromomethane	<1.0		1.0		ug/L			02/11/20 13:04	1
Chloroethane	<1.0		1.0		ug/L			02/11/20 13:04	1
Chloroform	<1.0		1.0		ug/L			02/11/20 13:04	1
Chloromethane	<1.0		1.0		ug/L			02/11/20 13:04	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			02/11/20 13:04	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			02/11/20 13:04	1
Cyclohexane	<1.0		1.0		ug/L			02/11/20 13:04	1
Dichlorobromomethane	<1.0		1.0		ug/L			02/11/20 13:04	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			02/11/20 13:04	1
Ethylbenzene	<1.0		1.0		ug/L			02/11/20 13:04	1
Ethylene Dibromide	<1.0		1.0		ug/L			02/11/20 13:04	1
Isopropylbenzene	<1.0		1.0		ug/L			02/11/20 13:04	1
Methyl acetate	<5.0		5.0		ug/L			02/11/20 13:04	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			02/11/20 13:04	1
Methylcyclohexane	<1.0		1.0		ug/L			02/11/20 13:04	1
Methylene Chloride	<5.0		5.0		ug/L			02/11/20 13:04	1
Styrene	<1.0		1.0		ug/L			02/11/20 13:04	1
Tetrachloroethene	<1.0		1.0		ug/L			02/11/20 13:04	1
Toluene	<1.0		1.0		ug/L			02/11/20 13:04	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			02/11/20 13:04	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			02/11/20 13:04	1
Trichloroethene	<1.0		1.0		ug/L			02/11/20 13:04	1
Trichlorofluoromethane	<1.0		1.0		ug/L			02/11/20 13:04	1

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

Lab Sample ID: MB 400-477459/28
Matrix: Water
Analysis Batch: 477459

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<1.0		1.0		ug/L			02/11/20 13:04	1
Xylenes, Total	<10		10		ug/L			02/11/20 13:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*02/11/20 13:04*	*1*
Dibromofluoromethane	*106*		*81 - 121*		*02/11/20 13:04*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*02/11/20 13:04*	*1*

Lab Sample ID: LCS 400-477459/1002
Matrix: Water
Analysis Batch: 477459

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	50.0	50.9		ug/L		102	68 - 130
1,1,2,2-Tetrachloroethane	50.0	51.4		ug/L		103	70 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	62.2		ug/L		124	60 - 139
1,1,2-Trichloroethane	50.0	55.6		ug/L		111	70 - 130
1,1-Dichloroethane	50.0	49.0		ug/L		98	70 - 130
1,1-Dichloroethene	50.0	59.7		ug/L		119	63 - 134
1,2,3-Trichlorobenzene	50.0	49.6		ug/L		99	60 - 138
1,2-Dibromo-3-Chloropropane	50.0	50.0		ug/L		100	54 - 135
1,2-Dichlorobenzene	50.0	52.1		ug/L		104	67 - 130
1,2-Dichloroethane	50.0	53.3		ug/L		107	69 - 130
1,2-Dichloropropane	50.0	47.8		ug/L		96	70 - 130
1,3-Dichlorobenzene	50.0	52.0		ug/L		104	70 - 130
1,4-Dichlorobenzene	50.0	50.9		ug/L		102	70 - 130
2-Butanone (MEK)	200	215		ug/L		108	61 - 145
2-Hexanone	200	207		ug/L		103	65 - 137
4-Methyl-2-pentanone (MIBK)	200	205		ug/L		103	69 - 138
Acetone	200	232		ug/L		116	43 - 160
Benzene	50.0	50.7		ug/L		101	70 - 130
Bromoform	50.0	48.3		ug/L		97	57 - 140
Bromomethane	50.0	90.7	*	ug/L		181	10 - 160
Carbon disulfide	50.0	56.5		ug/L		113	61 - 137
Carbon tetrachloride	50.0	50.8		ug/L		102	61 - 137
Chlorobenzene	50.0	51.5		ug/L		103	70 - 130
Chlorobromomethane	50.0	54.4		ug/L		109	70 - 130
Chlorodibromomethane	50.0	52.9		ug/L		106	67 - 135
Chloroethane	50.0	69.7		ug/L		139	55 - 141
Chloroform	50.0	52.6		ug/L		105	69 - 130
Chloromethane	50.0	38.9		ug/L		78	58 - 137
cis-1,2-Dichloroethene	50.0	48.6		ug/L		97	68 - 130
cis-1,3-Dichloropropene	50.0	49.1		ug/L		98	69 - 132
Cyclohexane	50.0	50.6		ug/L		101	70 - 130
Dichlorobromomethane	50.0	51.4		ug/L		103	67 - 133
Dichlorodifluoromethane	50.0	28.8		ug/L		58	41 - 146
Ethylbenzene	50.0	50.1		ug/L		100	70 - 130
Ethylene Dibromide	50.0	55.3		ug/L		111	70 - 130

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

Lab Sample ID: LCS 400-477459/1002
Matrix: Water
Analysis Batch: 477459

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	52.8		ug/L		106	70 - 130
Methyl acetate	100	92.7		ug/L		93	45 - 159
Methyl tert-butyl ether	50.0	50.0		ug/L		100	66 - 130
Methylcyclohexane	50.0	51.7		ug/L		103	70 - 130
Methylene Chloride	50.0	50.6		ug/L		101	66 - 135
m-Xylene & p-Xylene	50.0	50.5		ug/L		101	70 - 130
o-Xylene	50.0	50.7		ug/L		101	70 - 130
Styrene	50.0	52.1		ug/L		104	70 - 130
Tetrachloroethene	50.0	59.9		ug/L		120	65 - 130
Toluene	50.0	50.7		ug/L		101	70 - 130
trans-1,2-Dichloroethene	50.0	51.3		ug/L		103	70 - 130
trans-1,3-Dichloropropene	50.0	51.0		ug/L		102	63 - 130
Trichloroethene	50.0	54.2		ug/L		108	70 - 130
Trichlorofluoromethane	50.0	64.5		ug/L		129	65 - 138
Vinyl chloride	50.0	46.3		ug/L		93	59 - 136
Xylenes, Total	100	101		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*90*		*78 - 118*
Dibromofluoromethane	*107*		*81 - 121*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: 400-183566-A-9 MS
Matrix: Water
Analysis Batch: 477459

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<1.0		50.0	50.8		ug/L		102	57 - 142
1,1,2,2-Tetrachloroethane	<1.0		50.0	47.0		ug/L		94	66 - 135
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		50.0	66.3		ug/L		133	55 - 150
1,1,2-Trichloroethane	<5.0		50.0	50.5		ug/L		101	66 - 131
1,1-Dichloroethane	<1.0		50.0	48.4		ug/L		97	61 - 144
1,1-Dichloroethene	<1.0		50.0	65.7		ug/L		131	54 - 147
1,2,3-Trichlorobenzene	<1.0		50.0	42.7		ug/L		85	43 - 145
1,2-Dibromo-3-Chloropropane	<5.0		50.0	45.4		ug/L		91	45 - 135
1,2-Dichlorobenzene	<1.0		50.0	46.6		ug/L		93	52 - 137
1,2-Dichloroethane	<1.0		50.0	53.0		ug/L		106	60 - 141
1,2-Dichloropropane	<1.0		50.0	47.2		ug/L		94	66 - 137
1,3-Dichlorobenzene	<1.0		50.0	46.1		ug/L		92	54 - 135
1,4-Dichlorobenzene	<1.0		50.0	43.9		ug/L		88	53 - 135
2-Butanone (MEK)	<25		200	185		ug/L		93	55 - 150
2-Hexanone	<25		200	178		ug/L		89	65 - 140
4-Methyl-2-pentanone (MIBK)	<25		200	193		ug/L		96	63 - 146
Acetone	<25		200	222		ug/L		111	43 - 150
Benzene	<1.0		50.0	50.7		ug/L		101	56 - 142
Bromoform	<5.0		50.0	47.0		ug/L		94	50 - 140
Bromomethane	<1.0	F1 *	50.0	87.4	F1	ug/L		175	10 - 150
Carbon disulfide	<1.0		50.0	52.7		ug/L		105	48 - 150

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

Lab Sample ID: 400-183566-A-9 MS
Matrix: Water
Analysis Batch: 477459

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	<1.0		50.0	50.1		ug/L		100	55 - 145
Chlorobenzene	<1.0		50.0	47.7		ug/L		95	64 - 130
Chlorobromomethane	<1.0		50.0	53.7		ug/L		107	64 - 140
Chlorodibromomethane	<1.0		50.0	50.1		ug/L		100	56 - 143
Chloroethane	<1.0		50.0	69.7		ug/L		139	50 - 150
Chloroform	<1.0		50.0	51.3		ug/L		103	60 - 141
Chloromethane	<1.0		50.0	39.1		ug/L		78	49 - 148
cis-1,2-Dichloroethene	<1.0		50.0	48.7		ug/L		97	59 - 143
cis-1,3-Dichloropropene	<5.0		50.0	47.7		ug/L		95	57 - 140
Cyclohexane	<1.0		50.0	49.6		ug/L		99	58 - 141
Dichlorobromomethane	<1.0		50.0	50.5		ug/L		101	59 - 143
Dichlorodifluoromethane	<1.0		50.0	28.7		ug/L		57	16 - 150
Ethylbenzene	<1.0		50.0	44.8		ug/L		90	58 - 131
Ethylene Dibromide	<1.0		50.0	51.7		ug/L		103	64 - 132
Isopropylbenzene	<1.0		50.0	46.3		ug/L		93	56 - 133
Methyl acetate	<5.0		100	90.7		ug/L		91	21 - 150
Methyl tert-butyl ether	<1.0		50.0	49.3		ug/L		99	59 - 137
Methylcyclohexane	<1.0		50.0	50.4		ug/L		101	62 - 141
Methylene Chloride	<5.0		50.0	50.8		ug/L		102	60 - 146
m-Xylene & p-Xylene	<5.0		50.0	44.8		ug/L		90	57 - 130
o-Xylene	<5.0		50.0	46.2		ug/L		92	61 - 130
Styrene	<1.0		50.0	47.0		ug/L		94	58 - 131
Tetrachloroethene	<1.0		50.0	51.3		ug/L		103	52 - 133
Toluene	<1.0		50.0	48.1		ug/L		96	65 - 130
trans-1,2-Dichloroethene	<1.0		50.0	50.5		ug/L		101	61 - 143
trans-1,3-Dichloropropene	<5.0		50.0	46.5		ug/L		93	53 - 133
Trichloroethene	<1.0		50.0	54.1		ug/L		108	64 - 136
Trichlorofluoromethane	<1.0		50.0	67.5		ug/L		135	54 - 150
Vinyl chloride	<1.0		50.0	45.4		ug/L		91	46 - 150
Xylenes, Total	<10		100	90.9		ug/L		91	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*78 - 118*
Dibromofluoromethane	*107*		*81 - 121*
Toluene-d8 (Surr)	*92*		*80 - 120*

Lab Sample ID: 400-183566-A-9 MSD
Matrix: Water
Analysis Batch: 477459

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<1.0		50.0	50.2		ug/L		100	57 - 142	1	30
1,1,2,2-Tetrachloroethane	<1.0		50.0	49.2		ug/L		98	66 - 135	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		50.0	63.7		ug/L		127	55 - 150	4	30
1,1,2-Trichloroethane	<5.0		50.0	50.5		ug/L		101	66 - 131	0	30
1,1-Dichloroethane	<1.0		50.0	47.0		ug/L		94	61 - 144	3	30
1,1-Dichloroethene	<1.0		50.0	62.4		ug/L		125	54 - 147	5	30
1,2,3-Trichlorobenzene	<1.0		50.0	43.6		ug/L		87	43 - 145	2	30

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

Lab Sample ID: 400-183566-A-9 MSD
Matrix: Water
Analysis Batch: 477459

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	<5.0		50.0	49.3		ug/L		99	45 - 135	8	30
1,2-Dichlorobenzene	<1.0		50.0	45.7		ug/L		91	52 - 137	2	30
1,2-Dichloroethane	<1.0		50.0	51.1		ug/L		102	60 - 141	4	30
1,2-Dichloropropane	<1.0		50.0	48.8		ug/L		98	66 - 137	3	30
1,3-Dichlorobenzene	<1.0		50.0	44.3		ug/L		89	54 - 135	4	30
1,4-Dichlorobenzene	<1.0		50.0	42.2		ug/L		84	53 - 135	4	30
2-Butanone (MEK)	<25		200	214		ug/L		107	55 - 150	14	30
2-Hexanone	<25		200	195		ug/L		97	65 - 140	9	30
4-Methyl-2-pentanone (MIBK)	<25		200	206		ug/L		103	63 - 146	7	30
Acetone	<25		200	228		ug/L		114	43 - 150	2	30
Benzene	<1.0		50.0	49.5		ug/L		99	56 - 142	2	30
Bromoform	<5.0		50.0	48.1		ug/L		96	50 - 140	2	30
Bromomethane	<1.0	F1 *	50.0	95.2	F1	ug/L		190	10 - 150	8	50
Carbon disulfide	<1.0		50.0	57.2		ug/L		114	48 - 150	8	30
Carbon tetrachloride	<1.0		50.0	48.8		ug/L		98	55 - 145	3	30
Chlorobenzene	<1.0		50.0	44.4		ug/L		89	64 - 130	7	30
Chlorobromomethane	<1.0		50.0	52.2		ug/L		104	64 - 140	3	30
Chlorodibromomethane	<1.0		50.0	48.9		ug/L		98	56 - 143	3	30
Chloroethane	<1.0		50.0	66.1		ug/L		132	50 - 150	5	30
Chloroform	<1.0		50.0	50.9		ug/L		102	60 - 141	1	30
Chloromethane	<1.0		50.0	39.6		ug/L		79	49 - 148	1	31
cis-1,2-Dichloroethene	<1.0		50.0	46.9		ug/L		94	59 - 143	4	30
cis-1,3-Dichloropropene	<5.0		50.0	48.5		ug/L		97	57 - 140	2	30
Cyclohexane	<1.0		50.0	49.2		ug/L		98	58 - 141	1	30
Dichlorobromomethane	<1.0		50.0	49.8		ug/L		100	59 - 143	2	30
Dichlorodifluoromethane	<1.0		50.0	33.6		ug/L		67	16 - 150	16	31
Ethylbenzene	<1.0		50.0	43.1		ug/L		86	58 - 131	4	30
Ethylene Dibromide	<1.0		50.0	49.8		ug/L		100	64 - 132	4	30
Isopropylbenzene	<1.0		50.0	44.5		ug/L		89	56 - 133	4	30
Methyl acetate	<5.0		100	94.3		ug/L		94	21 - 150	4	30
Methyl tert-butyl ether	<1.0		50.0	50.0		ug/L		100	59 - 137	1	30
Methylcyclohexane	<1.0		50.0	49.4		ug/L		99	62 - 141	2	30
Methylene Chloride	<5.0		50.0	50.8		ug/L		102	60 - 146	0	32
m-Xylene & p-Xylene	<5.0		50.0	42.8		ug/L		86	57 - 130	5	30
o-Xylene	<5.0		50.0	43.7		ug/L		87	61 - 130	5	30
Styrene	<1.0		50.0	44.5		ug/L		89	58 - 131	5	30
Tetrachloroethene	<1.0		50.0	48.5		ug/L		97	52 - 133	6	30
Toluene	<1.0		50.0	45.4		ug/L		91	65 - 130	6	30
trans-1,2-Dichloroethene	<1.0		50.0	48.3		ug/L		97	61 - 143	5	30
trans-1,3-Dichloropropene	<5.0		50.0	47.8		ug/L		96	53 - 133	3	30
Trichloroethene	<1.0		50.0	50.3		ug/L		101	64 - 136	7	30
Trichlorofluoromethane	<1.0		50.0	60.1		ug/L		120	54 - 150	11	30
Vinyl chloride	<1.0		50.0	46.0		ug/L		92	46 - 150	1	30
Xylenes, Total	<10		100	86.5		ug/L		86	59 - 130	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*78 - 118*
Dibromofluoromethane	*108*		*81 - 121*

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

Lab Sample ID: 400-183566-A-9 MSD
Matrix: Water
Analysis Batch: 477459

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	*94*		*80 - 120*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 400-476563/3
Matrix: Water
Analysis Batch: 476563

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			02/04/20 12:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	*96*		*78 - 119*		*02/04/20 12:34*	*1*

Lab Sample ID: LCS 400-476563/1002
Matrix: Water
Analysis Batch: 476563

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	1000	928		ug/L		93	85 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	*94*		*78 - 119*

Lab Sample ID: 400-183363-D-1 MS
Matrix: Water
Analysis Batch: 476563

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	790		1000	1650		ug/L		86	35 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	*86*		*78 - 119*

Lab Sample ID: 400-183363-D-1 MSD
Matrix: Water
Analysis Batch: 476563

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	790		1000	1610		ug/L		82	35 - 150	2	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	*86*		*78 - 119*

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-183435-1

Method: 8015C - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 400-476704/1-A
Matrix: Water
Analysis Batch: 476920

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 476704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<130		130		ug/L		02/05/20 10:32	02/06/20 20:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*71*		*40 - 140*	*02/05/20 10:32*	*02/06/20 20:41*	*1*

Lab Sample ID: LCS 400-476704/2-A
Matrix: Water
Analysis Batch: 476920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 476704

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			17000	9090		ug/L		53	40 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*62*		*40 - 140*

Lab Sample ID: LCSD 400-476704/3-A
Matrix: Water
Analysis Batch: 476920

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 476704

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			17000	12200		ug/L		72	40 - 120	29	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*82*		*40 - 140*

QC Association Summary

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-183435-1

GC/MS VOA

Analysis Batch: 477459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183435-1	TW-14	Total/NA	Water	8260C	
400-183435-2	TW-15	Total/NA	Water	8260C	
400-183435-3	TW-16	Total/NA	Water	8260C	
MB 400-477459/28	Method Blank	Total/NA	Water	8260C	
LCS 400-477459/1002	Lab Control Sample	Total/NA	Water	8260C	
400-183566-A-9 MS	Matrix Spike	Total/NA	Water	8260C	
400-183566-A-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

GC VOA

Analysis Batch: 476563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183435-1	TW-14	Total/NA	Water	8015C	
400-183435-2	TW-15	Total/NA	Water	8015C	
400-183435-3	TW-16	Total/NA	Water	8015C	
MB 400-476563/3	Method Blank	Total/NA	Water	8015C	
LCS 400-476563/1002	Lab Control Sample	Total/NA	Water	8015C	
400-183363-D-1 MS	Matrix Spike	Total/NA	Water	8015C	
400-183363-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 476704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183435-1	TW-14	Total/NA	Water	3510C	
400-183435-2	TW-15	Total/NA	Water	3510C	
400-183435-3	TW-16	Total/NA	Water	3510C	
MB 400-476704/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-476704/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-476704/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 476920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-183435-1	TW-14	Total/NA	Water	8015C	476704
400-183435-2	TW-15	Total/NA	Water	8015C	476704
400-183435-3	TW-16	Total/NA	Water	8015C	476704
MB 400-476704/1-A	Method Blank	Total/NA	Water	8015C	476704
LCS 400-476704/2-A	Lab Control Sample	Total/NA	Water	8015C	476704
LCSD 400-476704/3-A	Lab Control Sample Dup	Total/NA	Water	8015C	476704

Lab Chronicle

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-183435-1

Client Sample ID: TW-14

Lab Sample ID: 400-183435-1

Date Collected: 02/03/20 08:35

Matrix: Water

Date Received: 02/04/20 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	477459	02/11/20 17:31	RS	TAL PEN
Total/NA	Analysis	8015C		1	476563	02/05/20 01:16	GRK	TAL PEN
Total/NA	Prep	3510C			476704	02/05/20 10:32	CAO	TAL PEN
Total/NA	Analysis	8015C		1	476920	02/06/20 23:58	JAW	TAL PEN

Client Sample ID: TW-15

Lab Sample ID: 400-183435-2

Date Collected: 02/03/20 11:05

Matrix: Water

Date Received: 02/04/20 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	477459	02/11/20 17:55	RS	TAL PEN
Total/NA	Analysis	8015C		1	476563	02/05/20 01:48	GRK	TAL PEN
Total/NA	Prep	3510C			476704	02/05/20 10:32	CAO	TAL PEN
Total/NA	Analysis	8015C		1	476920	02/07/20 00:10	JAW	TAL PEN

Client Sample ID: TW-16

Lab Sample ID: 400-183435-3

Date Collected: 02/03/20 09:52

Matrix: Water

Date Received: 02/04/20 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	477459	02/11/20 18:19	RS	TAL PEN
Total/NA	Analysis	8015C		1	476563	02/05/20 02:19	GRK	TAL PEN
Total/NA	Prep	3510C			476704	02/05/20 10:32	CAO	TAL PEN
Total/NA	Analysis	8015C		1	476920	02/07/20 00:33	JAW	TAL PEN

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-183435-1

Laboratory: Eurofins TestAmerica, Pensacola

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Virginia	NELAP	460166	06-14-20

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
8260C		Water	Dibromofluoromethane

Method Summary

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-183435-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL PEN
8015C	Diesel Range Organics (DRO) (GC)	EPA	TAL PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL PEN
5030C	Purge and Trap	SW846	TAL PEN

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 PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing

400-183435 COC

Client Information	Sampler: ALEXIS HOLCOMB	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-90970-33436.2
Client Contact: Alexis Holcomb	Phone: 703 569 1596	E-Mail: mark.swafford@testamericainc.com		Page: Page 2 of 2
Company: SCS Engineers				Job #: 02218113.09
Address: 2877 Guardian Lane Suite 1-F	Due Date Requested:			
City: Virginia Beach	TAT Requested (days): 10			
State, Zip: VA, 23452				
Phone: 757 201 9264	PO #: Purchase Order Requested			
Email: AHolcomb@scsengineers.com	WO #:			
Project Name: St.Paul's Sampling	Project #: 40005152			
Site:	SSOW#:			

Analysis Requested

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)	8015C_DRO - (MOD) DRO C10-C28	8015C_GRO - GRO (C6-C10)	8260B - TCL Volatiles	8082A - TCL PCBs by 8082A	8270D - TCL Semivolatiles	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	A	A	N	N	X	
B-14 TW-14	2/3/20	835	G	Water			X	X	X				
B-15 TW-15	2/3/20	1105	G	Water			X	X	X				
B-16 TW-16	2/3/20	952	G	Water			X	X	X				
B-3				Water									
B-4				Water									

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:

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: 2/3/20	1305	Company SCS	Received by:	Date/Time: 2/3/20	1305	Company ETA
Relinquished by:	Date/Time: 2/3/20	1600	Company	Received by:	Date/Time:	0907	Company
Relinquished by:	Date/Time:		Company	Received by:	Date/Time: 2/4/20	935	Company TA PEN

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.3 °IR7 BKC

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 400-183435-1

Login Number: 183435

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Conrady, Hank W

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	3.3°C IR-7
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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-185244-1
Client Project/Site: St. Paul's

For:
SCS Engineers
2877 Guardian Lane
Suite 1-F
Virginia Beach, Virginia 23452

Attn: Keith Matteson

Mark Swafford

Authorized for release by:
3/24/2020 10:48:56 AM

Mark Swafford, Project Manager II
(850)471-6207
mark.swafford@testamericainc.com

Table of Contents

Definitions/Glossary

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-185244-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

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

Job ID: 400-185244-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-185244-1

Comments
No additional comments.

Receipt
The samples were received on 3/12/2020 8:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

Receipt Exceptions

The container label said there was No preservative in the 250ml ambers, but the containers themselves are preserved with HYDROCHLORIC ACID. Logged in per containers

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

GC VOA
Method 8015C: The following sample was diluted because the base dilution for methanol preserved samples is 1:50: TW-17 (400-185244-3).

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

GC Semi VOA
Method 8015C: The following samples were re-prepared outside of preparation holding time due to detection in the Method Blank above the RL: TW-17 (400-185244-1) and DUPLICATE (400-185244-2).

Method 8015C: Diesel Range Organics [C10-C28] was detected above the reporting limit (RL) in the method blank associated with preparation batch 400-482052 and 400-482052 and analytical batch 400-482341 as well as in the following samples: TW-17 (400-185244-1), DUPLICATE (400-185244-2) and (MB 400-482052/1-A). All affected samples were re-extracted and/or re-analyzed outside of holding time. Both sets of data have been reported.

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 (MS/MSD) associated with preparation batch 400-482811.

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

Detection Summary

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-185244-1

Client Sample ID: TW-17 — Lab Sample ID: 400-185244-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	270	B	120		ug/L	1		8015C	Total/NA
Diesel Range Organics [C10-C28] - RE	130	H	130		ug/L	1		8015C	Total/NA

Client Sample ID: DUPLICATE — Lab Sample ID: 400-185244-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	210	B	120		ug/L	1		8015C	Total/NA

Client Sample ID: TW-17 — Lab Sample ID: 400-185244-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Sample Summary

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-185244-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-185244-1	TW-17	Water	03/10/20 17:30	03/12/20 08:55	
400-185244-2	DUPLICATE	Water	03/10/20 17:30	03/12/20 08:55	
400-185244-3	TW-17	Solid	03/09/20 18:00	03/12/20 08:55	

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-185244-1

Client Sample ID: TW-17

Date Collected: 03/10/20 17:30
Date Received: 03/12/20 08:55

Lab Sample ID: 400-185244-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			03/19/20 00:11	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			03/19/20 00:11	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			03/19/20 00:11	1
1,1-Dichloroethane	<1.0		1.0		ug/L			03/19/20 00:11	1
1,1-Dichloroethene	<1.0		1.0		ug/L			03/19/20 00:11	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			03/19/20 00:11	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			03/19/20 00:11	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			03/19/20 00:11	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			03/19/20 00:11	1
1,2-Dichloroethane	<1.0		1.0		ug/L			03/19/20 00:11	1
1,2-Dichloropropane	<1.0		1.0		ug/L			03/19/20 00:11	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			03/19/20 00:11	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			03/19/20 00:11	1
2-Hexanone	<25		25		ug/L			03/19/20 00:11	1
Acetone	<25		25		ug/L			03/19/20 00:11	1
Benzene	<1.0		1.0		ug/L			03/19/20 00:11	1
Bromoform	<5.0		5.0		ug/L			03/19/20 00:11	1
Bromomethane	<1.0		1.0		ug/L			03/19/20 00:11	1
Carbon disulfide	<1.0		1.0		ug/L			03/19/20 00:11	1
Carbon tetrachloride	<1.0		1.0		ug/L			03/19/20 00:11	1
Chlorobenzene	<1.0		1.0		ug/L			03/19/20 00:11	1
Chlorobromomethane	<1.0		1.0		ug/L			03/19/20 00:11	1
Dibromochloromethane	<1.0		1.0		ug/L			03/19/20 00:11	1
Chloroethane	<1.0		1.0		ug/L			03/19/20 00:11	1
Chloroform	<1.0		1.0		ug/L			03/19/20 00:11	1
Chloromethane	<1.0		1.0		ug/L			03/19/20 00:11	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/19/20 00:11	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			03/19/20 00:11	1
Bromodichloromethane	<1.0		1.0		ug/L			03/19/20 00:11	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			03/19/20 00:11	1
Ethylbenzene	<1.0		1.0		ug/L			03/19/20 00:11	1
Ethylene Dibromide	<1.0		1.0		ug/L			03/19/20 00:11	1
Isopropylbenzene	<1.0		1.0		ug/L			03/19/20 00:11	1
Methyl Ethyl Ketone	<25		25		ug/L			03/19/20 00:11	1
methyl isobutyl ketone	<25		25		ug/L			03/19/20 00:11	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			03/19/20 00:11	1
Methylene Chloride	<5.0		5.0		ug/L			03/19/20 00:11	1
Styrene	<1.0		1.0		ug/L			03/19/20 00:11	1
Tetrachloroethene	<1.0		1.0		ug/L			03/19/20 00:11	1
Toluene	<1.0		1.0		ug/L			03/19/20 00:11	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/19/20 00:11	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			03/19/20 00:11	1
Trichloroethene	<1.0		1.0		ug/L			03/19/20 00:11	1
Trichlorofluoromethane	<1.0		1.0		ug/L			03/19/20 00:11	1
Vinyl chloride	<1.0		1.0		ug/L			03/19/20 00:11	1
Xylenes, Total	<10		10		ug/L			03/19/20 00:11	1
Methyl acetate	<5.0		5.0		ug/L			03/19/20 00:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			03/19/20 00:11	1

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-185244-1

Client Sample ID: TW-17

Date Collected: 03/10/20 17:30
Date Received: 03/12/20 08:55

Lab Sample ID: 400-185244-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*78 - 118*		*03/19/20 00:11*	*1*
Dibromofluoromethane	*91*		*81 - 121*		*03/19/20 00:11*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*03/19/20 00:11*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			03/15/20 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*103*		*78 - 119*		*03/15/20 19:59*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**270**	**B**	120		ug/L		03/16/20 09:27	03/17/20 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*94*		*40 - 140*	*03/16/20 09:27*	*03/17/20 19:28*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**130**	**H**	130		ug/L		03/20/20 08:49	03/23/20 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*103*		*40 - 140*	*03/20/20 08:49*	*03/23/20 16:32*	*1*

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-185244-1

Client Sample ID: DUPLICATE

Date Collected: 03/10/20 17:30
Date Received: 03/12/20 08:55

Lab Sample ID: 400-185244-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			03/19/20 00:41	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			03/19/20 00:41	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			03/19/20 00:41	1
1,1-Dichloroethane	<1.0		1.0		ug/L			03/19/20 00:41	1
1,1-Dichloroethene	<1.0		1.0		ug/L			03/19/20 00:41	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			03/19/20 00:41	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			03/19/20 00:41	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			03/19/20 00:41	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			03/19/20 00:41	1
1,2-Dichloroethane	<1.0		1.0		ug/L			03/19/20 00:41	1
1,2-Dichloropropane	<1.0		1.0		ug/L			03/19/20 00:41	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			03/19/20 00:41	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			03/19/20 00:41	1
2-Hexanone	<25		25		ug/L			03/19/20 00:41	1
Acetone	<25		25		ug/L			03/19/20 00:41	1
Benzene	<1.0		1.0		ug/L			03/19/20 00:41	1
Bromoform	<5.0		5.0		ug/L			03/19/20 00:41	1
Bromomethane	<1.0		1.0		ug/L			03/19/20 00:41	1
Carbon disulfide	<1.0		1.0		ug/L			03/19/20 00:41	1
Carbon tetrachloride	<1.0		1.0		ug/L			03/19/20 00:41	1
Chlorobenzene	<1.0		1.0		ug/L			03/19/20 00:41	1
Chlorobromomethane	<1.0		1.0		ug/L			03/19/20 00:41	1
Dibromochloromethane	<1.0		1.0		ug/L			03/19/20 00:41	1
Chloroethane	<1.0		1.0		ug/L			03/19/20 00:41	1
Chloroform	<1.0		1.0		ug/L			03/19/20 00:41	1
Chloromethane	<1.0		1.0		ug/L			03/19/20 00:41	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/19/20 00:41	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			03/19/20 00:41	1
Bromodichloromethane	<1.0		1.0		ug/L			03/19/20 00:41	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			03/19/20 00:41	1
Ethylbenzene	<1.0		1.0		ug/L			03/19/20 00:41	1
Ethylene Dibromide	<1.0		1.0		ug/L			03/19/20 00:41	1
Isopropylbenzene	<1.0		1.0		ug/L			03/19/20 00:41	1
Methyl Ethyl Ketone	<25		25		ug/L			03/19/20 00:41	1
methyl isobutyl ketone	<25		25		ug/L			03/19/20 00:41	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			03/19/20 00:41	1
Methylene Chloride	<5.0		5.0		ug/L			03/19/20 00:41	1
Styrene	<1.0		1.0		ug/L			03/19/20 00:41	1
Tetrachloroethene	<1.0		1.0		ug/L			03/19/20 00:41	1
Toluene	<1.0		1.0		ug/L			03/19/20 00:41	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/19/20 00:41	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			03/19/20 00:41	1
Trichloroethene	<1.0		1.0		ug/L			03/19/20 00:41	1
Trichlorofluoromethane	<1.0		1.0		ug/L			03/19/20 00:41	1
Vinyl chloride	<1.0		1.0		ug/L			03/19/20 00:41	1
Xylenes, Total	<10		10		ug/L			03/19/20 00:41	1
Methyl acetate	<5.0		5.0		ug/L			03/19/20 00:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			03/19/20 00:41	1

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-185244-1

Client Sample ID: DUPLICATE

Date Collected: 03/10/20 17:30
Date Received: 03/12/20 08:55

Lab Sample ID: 400-185244-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	107		78 - 118		03/19/20 00:41	1
Dibromofluoromethane	93		81 - 121		03/19/20 00:41	1
Toluene-d8 (Surr)	104		80 - 120		03/19/20 00:41	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			03/15/20 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	104		78 - 119		03/15/20 20:31	1

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**210**	**B**	120		ug/L		03/16/20 09:27	03/17/20 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	99		40 - 140	03/16/20 09:27	03/17/20 19:38	1

Method: 8015C - Diesel Range Organics (DRO) (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<120	H	120		ug/L		03/20/20 08:49	03/23/20 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	102		40 - 140	03/20/20 08:49	03/23/20 16:44	1

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-185244-1

Client Sample ID: TW-17
Date Collected: 03/09/20 18:00
Date Received: 03/12/20 08:55

Lab Sample ID: 400-185244-3
Matrix: Solid
Percent Solids: 85.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
1,1,2-Trichloroethane	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
1,1-Dichloroethane	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
1,1-Dichloroethene	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
1,2,3-Trichlorobenzene	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
1,2,4-Trichlorobenzene	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
1,2-Dibromo-3-Chloropropane	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
1,2-Dichlorobenzene	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
1,2-Dichloroethane	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
1,2-Dichloropropane	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
1,3-Dichlorobenzene	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
1,4-Dichlorobenzene	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
2-Hexanone	<0.027		0.027		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Acetone	<0.027		0.027		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Benzene	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Bromodichloromethane	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Bromoform	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Bromomethane	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Carbon disulfide	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Carbon tetrachloride	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Chlorobenzene	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Chlorobromomethane	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Chloroethane	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Chloroform	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Chloromethane	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
cis-1,2-Dichloroethene	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
cis-1,3-Dichloropropene	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Dibromochloromethane	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Dichlorodifluoromethane	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Ethylbenzene	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Ethylene Dibromide	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Isopropylbenzene	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Methyl acetate	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Methyl Ethyl Ketone	<0.027		0.027		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
methyl isobutyl ketone	<0.027		0.027		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Methyl tert-butyl ether	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Methylene Chloride	<0.016		0.016		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Styrene	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Tetrachloroethene	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Toluene	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
trans-1,2-Dichloroethene	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
trans-1,3-Dichloropropene	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Trichloroethene	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Trichlorofluoromethane	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Vinyl chloride	<0.0055		0.0055		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1
Xylenes, Total	<0.011		0.011		mg/Kg	☼	03/18/20 06:31	03/18/20 12:36	1

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-185244-1

Client Sample ID: TW-17
Date Collected: 03/09/20 18:00
Date Received: 03/12/20 08:55

Lab Sample ID: 400-185244-3
Matrix: Solid
Percent Solids: 85.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		67 - 130	03/18/20 06:31	03/18/20 12:36	1
Dibromofluoromethane	94		77 - 127	03/18/20 06:31	03/18/20 12:36	1
Toluene-d8 (Surr)	104		76 - 127	03/18/20 06:31	03/18/20 12:36	1

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<7.2		7.2		mg/Kg	☼	03/17/20 13:31	03/17/20 13:53	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	102		65 - 125	03/17/20 13:31	03/17/20 13:53	50

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<5.8		5.8		mg/Kg	☼	03/13/20 10:12	03/18/20 06:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	102		27 - 151	03/13/20 10:12	03/18/20 06:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.9		0.01		%			03/16/20 10:34	1

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-185244-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-482427/1-A
Matrix: Solid
Analysis Batch: 482400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 482427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
1,1,2-Trichloroethane	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
1,1-Dichloroethane	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
1,1-Dichloroethene	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
1,2,3-Trichlorobenzene	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
1,2,4-Trichlorobenzene	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
1,2-Dichlorobenzene	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
1,2-Dichloroethane	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
1,2-Dichloropropane	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
1,3-Dichlorobenzene	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
1,4-Dichlorobenzene	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
2-Hexanone	<0.025		0.025		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Acetone	<0.025		0.025		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Benzene	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Bromoform	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Bromomethane	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Carbon disulfide	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Carbon tetrachloride	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Chlorobenzene	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Chlorobromomethane	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Chloroethane	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Chloroform	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Chloromethane	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
cis-1,2-Dichloroethene	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
cis-1,3-Dichloropropene	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Bromodichloromethane	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Dibromochloromethane	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Dichlorodifluoromethane	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Ethylbenzene	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Ethylene Dibromide	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Isopropylbenzene	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Methyl Ethyl Ketone	<0.025		0.025		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
methyl isobutyl ketone	<0.025		0.025		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Methyl tert-butyl ether	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Methylene Chloride	<0.015		0.015		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Styrene	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Tetrachloroethene	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Toluene	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
trans-1,2-Dichloroethene	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
trans-1,3-Dichloropropene	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Trichloroethene	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Trichlorofluoromethane	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Methyl acetate	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Vinyl chloride	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0050		0.0050		mg/Kg		03/18/20 06:31	03/18/20 08:38	1
Xylenes, Total	<0.010		0.010		mg/Kg		03/18/20 06:31	03/18/20 08:38	1

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

Lab Sample ID: MB 400-482427/1-A
Matrix: Solid
Analysis Batch: 482400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 482427

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	*105*		*67 - 130*	*03/18/20 06:31*	*03/18/20 08:38*	*1*
Dibromofluoromethane	*93*		*77 - 127*	*03/18/20 06:31*	*03/18/20 08:38*	*1*
Toluene-d8 (Surr)	*104*		*76 - 127*	*03/18/20 06:31*	*03/18/20 08:38*	*1*

Lab Sample ID: LCS 400-482427/2-A
Matrix: Solid
Analysis Batch: 482400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 482427

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.0500	0.0480		mg/Kg		96	63 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.0500		mg/Kg		100	60 - 131
1,1,2-Trichloroethane	0.0500	0.0466		mg/Kg		93	65 - 130
1,1-Dichloroethane	0.0500	0.0463		mg/Kg		93	59 - 130
1,1-Dichloroethene	0.0500	0.0492		mg/Kg		98	55 - 137
1,2,3-Trichlorobenzene	0.0500	0.0593		mg/Kg		119	58 - 135
1,2,4-Trichlorobenzene	0.0500	0.0583		mg/Kg		117	56 - 138
1,2-Dibromo-3-Chloropropane	0.0500	0.0483		mg/Kg		97	49 - 130
1,2-Dichlorobenzene	0.0500	0.0512		mg/Kg		102	64 - 130
1,2-Dichloroethane	0.0500	0.0427		mg/Kg		85	62 - 130
1,2-Dichloropropane	0.0500	0.0457		mg/Kg		91	64 - 130
1,3-Dichlorobenzene	0.0500	0.0516		mg/Kg		103	66 - 130
1,4-Dichlorobenzene	0.0500	0.0522		mg/Kg		104	65 - 130
2-Hexanone	0.200	0.163		mg/Kg		82	57 - 131
Acetone	0.200	0.141		mg/Kg		70	48 - 160
Benzene	0.0500	0.0458		mg/Kg		92	65 - 130
Bromoform	0.0500	0.0507		mg/Kg		101	52 - 136
Bromomethane	0.0500	0.0490		mg/Kg		98	12 - 160
Carbon disulfide	0.0500	0.0461		mg/Kg		92	46 - 141
Carbon tetrachloride	0.0500	0.0443		mg/Kg		89	60 - 130
Chlorobenzene	0.0500	0.0484		mg/Kg		97	70 - 130
Chlorobromomethane	0.0500	0.0502		mg/Kg		100	65 - 130
Chloroethane	0.0500	0.0537		mg/Kg		107	55 - 134
Chloroform	0.0500	0.0434		mg/Kg		87	62 - 130
Chloromethane	0.0500	0.0463		mg/Kg		93	49 - 136
cis-1,2-Dichloroethene	0.0500	0.0445		mg/Kg		89	53 - 135
cis-1,3-Dichloropropene	0.0500	0.0465		mg/Kg		93	61 - 130
Bromodichloromethane	0.0500	0.0457		mg/Kg		91	61 - 130
Dibromochloromethane	0.0500	0.0468		mg/Kg		94	58 - 132
Dichlorodifluoromethane	0.0500	0.0588		mg/Kg		118	34 - 143
Ethylbenzene	0.0500	0.0466		mg/Kg		93	70 - 130
Ethylene Dibromide	0.0500	0.0459		mg/Kg		92	67 - 130
Isopropylbenzene	0.0500	0.0486		mg/Kg		97	70 - 130
Methyl Ethyl Ketone	0.200	0.148		mg/Kg		74	55 - 130
methyl isobutyl ketone	0.200	0.167		mg/Kg		84	58 - 130
Methyl tert-butyl ether	0.0500	0.0449		mg/Kg		90	63 - 130
Methylene Chloride	0.0500	0.0495		mg/Kg		99	57 - 132
Styrene	0.0500	0.0476		mg/Kg		95	68 - 130
Tetrachloroethene	0.0500	0.0472		mg/Kg		94	67 - 130

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

Lab Sample ID: LCS 400-482427/2-A
Matrix: Solid
Analysis Batch: 482400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 482427

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Toluene			0.0500	0.0439		mg/Kg		88	70 - 130		
trans-1,2-Dichloroethene			0.0500	0.0474		mg/Kg		95	58 - 134		
trans-1,3-Dichloropropene			0.0500	0.0473		mg/Kg		95	60 - 130		
Trichloroethene			0.0500	0.0458		mg/Kg		92	65 - 130		
Trichlorofluoromethane			0.0500	0.0497		mg/Kg		99	61 - 136		
Methyl acetate			0.100	0.0767		mg/Kg		77	49 - 139		
Vinyl chloride			0.0500	0.0526		mg/Kg		105	52 - 132		
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.0455		mg/Kg		91	47 - 143		
Xylenes, Total			0.100	0.0925		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*67 - 130*
Dibromofluoromethane	*92*		*77 - 127*
Toluene-d8 (Surr)	*107*		*76 - 127*

Lab Sample ID: 400-185096-A-2-E MS
Matrix: Solid
Analysis Batch: 482400

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 482427

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane	<0.0063		0.0648	0.0519		mg/Kg	☼	80	41 - 130		
1,1,2,2-Tetrachloroethane	<0.0063		0.0648	0.0445		mg/Kg	☼	69	10 - 149		
1,1,2-Trichloroethane	<0.0063		0.0648	0.0466		mg/Kg	☼	72	37 - 130		
1,1-Dichloroethane	<0.0063		0.0648	0.0511		mg/Kg	☼	79	41 - 130		
1,1-Dichloroethene	<0.0063		0.0648	0.0530		mg/Kg	☼	82	39 - 138		
1,2,3-Trichlorobenzene	<0.0063		0.0648	0.0328		mg/Kg	☼	51	10 - 146		
1,2,4-Trichlorobenzene	<0.0063		0.0648	0.0348		mg/Kg	☼	54	10 - 141		
1,2-Dibromo-3-Chloropropane	<0.0063		0.0648	0.0403		mg/Kg	☼	62	14 - 132		
1,2-Dichlorobenzene	<0.0063		0.0648	0.0400		mg/Kg	☼	62	20 - 130		
1,2-Dichloroethane	<0.0063		0.0648	0.0415		mg/Kg	☼	64	37 - 130		
1,2-Dichloropropane	<0.0063		0.0648	0.0483		mg/Kg	☼	75	39 - 130		
1,3-Dichlorobenzene	<0.0063		0.0648	0.0413		mg/Kg	☼	64	22 - 130		
1,4-Dichlorobenzene	<0.0063		0.0648	0.0416		mg/Kg	☼	64	21 - 130		
2-Hexanone	<0.031		0.259	0.164		mg/Kg	☼	63	20 - 142		
Acetone	0.054		0.259	0.208		mg/Kg	☼	59	10 - 150		
Benzene	<0.0063		0.0648	0.0481		mg/Kg	☼	74	38 - 131		
Bromoform	<0.0063		0.0648	0.0440		mg/Kg	☼	68	24 - 136		
Bromomethane	<0.0063		0.0648	0.0549		mg/Kg	☼	85	10 - 150		
Carbon disulfide	<0.0063		0.0648	0.0512		mg/Kg	☼	79	29 - 141		
Carbon tetrachloride	<0.0063		0.0648	0.0491		mg/Kg	☼	76	36 - 134		
Chlorobenzene	<0.0063		0.0648	0.0461		mg/Kg	☼	71	37 - 130		
Chlorobromomethane	<0.0063		0.0648	0.0518		mg/Kg	☼	80	37 - 134		
Chloroethane	<0.0063		0.0648	0.0563		mg/Kg	☼	87	36 - 139		
Chloroform	<0.0063		0.0648	0.0482		mg/Kg	☼	74	39 - 130		
Chloromethane	<0.0063		0.0648	0.0484		mg/Kg	☼	75	35 - 136		
cis-1,2-Dichloroethene	<0.0063		0.0648	0.0465		mg/Kg	☼	72	32 - 135		
cis-1,3-Dichloropropene	<0.0063		0.0648	0.0471		mg/Kg	☼	73	34 - 130		
Bromodichloromethane	<0.0063		0.0648	0.0466		mg/Kg	☼	72	37 - 130		

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

Lab Sample ID: 400-185096-A-2-E MS
Matrix: Solid
Analysis Batch: 482400

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 482427

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	<0.0063		0.0648	0.0459		mg/Kg	☼	71	32 - 132
Dichlorodifluoromethane	<0.0063		0.0648	0.0614		mg/Kg	☼	95	21 - 146
Ethylbenzene	<0.0063		0.0648	0.0469		mg/Kg	☼	72	35 - 130
Ethylene Dibromide	<0.0063		0.0648	0.0466		mg/Kg	☼	72	35 - 130
Isopropylbenzene	<0.0063		0.0648	0.0464		mg/Kg	☼	72	31 - 132
Methyl Ethyl Ketone	<0.031		0.259	0.180		mg/Kg	☼	65	19 - 139
methyl isobutyl ketone	<0.031		0.259	0.168		mg/Kg	☼	65	21 - 144
Methyl tert-butyl ether	<0.0063		0.0648	0.0486		mg/Kg	☼	75	34 - 132
Methylene Chloride	<0.019		0.0648	0.0494		mg/Kg	☼	76	36 - 132
Styrene	<0.0063		0.0648	0.0428		mg/Kg	☼	66	31 - 130
Tetrachloroethene	<0.0063		0.0648	0.0451		mg/Kg	☼	70	27 - 147
Toluene	<0.0063		0.0648	0.0450		mg/Kg	☼	69	42 - 130
trans-1,2-Dichloroethene	<0.0063		0.0648	0.0510		mg/Kg	☼	79	40 - 134
trans-1,3-Dichloropropene	<0.0063		0.0648	0.0445		mg/Kg	☼	69	31 - 130
Trichloroethene	<0.0063		0.0648	0.0491		mg/Kg	☼	76	34 - 144
Trichlorofluoromethane	<0.0063		0.0648	0.0505		mg/Kg	☼	78	41 - 143
Methyl acetate	<0.0063		0.130	0.108		mg/Kg	☼	83	10 - 150
Vinyl chloride	<0.0063		0.0648	0.0582		mg/Kg	☼	90	35 - 136
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0063		0.0648	0.0523		mg/Kg	☼	81	32 - 146
Xylenes, Total	<0.013		0.130	0.0901		mg/Kg	☼	69	35 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
Dibromofluoromethane	*93*		*77 - 127*
Toluene-d8 (Surr)	*105*		*76 - 127*

Lab Sample ID: 400-185096-A-2-F MSD
Matrix: Solid
Analysis Batch: 482400

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 482427

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<0.0063		0.0641	0.0563		mg/Kg	☼	88	41 - 130	8	40
1,1,2,2-Tetrachloroethane	<0.0063		0.0641	0.0520		mg/Kg	☼	81	10 - 149	16	44
1,1,2-Trichloroethane	<0.0063		0.0641	0.0497		mg/Kg	☼	78	37 - 130	6	33
1,1-Dichloroethane	<0.0063		0.0641	0.0535		mg/Kg	☼	83	41 - 130	5	35
1,1-Dichloroethene	<0.0063		0.0641	0.0574		mg/Kg	☼	90	39 - 138	8	37
1,2,3-Trichlorobenzene	<0.0063		0.0641	0.0371		mg/Kg	☼	58	10 - 146	12	47
1,2,4-Trichlorobenzene	<0.0063		0.0641	0.0390		mg/Kg	☼	61	10 - 141	11	53
1,2-Dibromo-3-Chloropropane	<0.0063		0.0641	0.0466		mg/Kg	☼	73	14 - 132	14	38
1,2-Dichlorobenzene	<0.0063		0.0641	0.0448		mg/Kg	☼	70	20 - 130	11	40
1,2-Dichloroethane	<0.0063		0.0641	0.0435		mg/Kg	☼	68	37 - 130	5	32
1,2-Dichloropropane	<0.0063		0.0641	0.0524		mg/Kg	☼	82	39 - 130	8	35
1,3-Dichlorobenzene	<0.0063		0.0641	0.0460		mg/Kg	☼	72	22 - 130	11	41
1,4-Dichlorobenzene	<0.0063		0.0641	0.0462		mg/Kg	☼	72	21 - 130	11	40
2-Hexanone	<0.031		0.256	0.180		mg/Kg	☼	70	20 - 142	9	37
Acetone	0.054		0.256	0.223		mg/Kg	☼	66	10 - 150	7	38
Benzene	<0.0063		0.0641	0.0525		mg/Kg	☼	82	38 - 131	9	36
Bromoform	<0.0063		0.0641	0.0503		mg/Kg	☼	78	24 - 136	13	34

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

Lab Sample ID: 400-185096-A-2-F MSD
Matrix: Solid
Analysis Batch: 482400

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 482427

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	<0.0063		0.0641	0.0617		mg/Kg	☼	96	10 - 150	12	47
Carbon disulfide	<0.0063		0.0641	0.0542		mg/Kg	☼	85	29 - 141	6	39
Carbon tetrachloride	<0.0063		0.0641	0.0509		mg/Kg	☼	80	36 - 134	4	44
Chlorobenzene	<0.0063		0.0641	0.0499		mg/Kg	☼	78	37 - 130	8	37
Chlorobromomethane	<0.0063		0.0641	0.0484		mg/Kg	☼	76	37 - 134	7	38
Chloroethane	<0.0063		0.0641	0.0529		mg/Kg	☼	83	36 - 139	6	42
Chloroform	<0.0063		0.0641	0.0492		mg/Kg	☼	77	39 - 130	2	35
Chloromethane	<0.0063		0.0641	0.0501		mg/Kg	☼	78	35 - 136	4	41
cis-1,2-Dichloroethene	<0.0063		0.0641	0.0498		mg/Kg	☼	78	32 - 135	7	35
cis-1,3-Dichloropropene	<0.0063		0.0641	0.0504		mg/Kg	☼	79	34 - 130	7	35
Bromodichloromethane	<0.0063		0.0641	0.0516		mg/Kg	☼	81	37 - 130	10	34
Dibromochloromethane	<0.0063		0.0641	0.0497		mg/Kg	☼	78	32 - 132	8	34
Dichlorodifluoromethane	<0.0063		0.0641	0.0593		mg/Kg	☼	93	21 - 146	3	46
Ethylbenzene	<0.0063		0.0641	0.0494		mg/Kg	☼	77	35 - 130	5	46
Ethylene Dibromide	<0.0063		0.0641	0.0494		mg/Kg	☼	77	35 - 130	6	31
Isopropylbenzene	<0.0063		0.0641	0.0481		mg/Kg	☼	75	31 - 132	4	51
Methyl Ethyl Ketone	<0.031		0.256	0.200		mg/Kg	☼	74	19 - 139	11	41
methyl isobutyl ketone	<0.031		0.256	0.193		mg/Kg	☼	75	21 - 144	13	39
Methyl tert-butyl ether	<0.0063		0.0641	0.0527		mg/Kg	☼	82	34 - 132	8	31
Methylene Chloride	<0.019		0.0641	0.0521		mg/Kg	☼	81	36 - 132	5	38
Styrene	<0.0063		0.0641	0.0461		mg/Kg	☼	72	31 - 130	7	39
Tetrachloroethene	<0.0063		0.0641	0.0472		mg/Kg	☼	74	27 - 147	5	44
Toluene	<0.0063		0.0641	0.0471		mg/Kg	☼	74	42 - 130	5	37
trans-1,2-Dichloroethene	<0.0063		0.0641	0.0576		mg/Kg	☼	90	40 - 134	12	38
trans-1,3-Dichloropropene	<0.0063		0.0641	0.0487		mg/Kg	☼	76	31 - 130	9	34
Trichloroethene	<0.0063		0.0641	0.0522		mg/Kg	☼	81	34 - 144	6	42
Trichlorofluoromethane	<0.0063		0.0641	0.0516		mg/Kg	☼	80	41 - 143	2	42
Methyl acetate	<0.0063		0.128	0.115		mg/Kg	☼	90	10 - 150	6	34
Vinyl chloride	<0.0063		0.0641	0.0627		mg/Kg	☼	98	35 - 136	8	43
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0063		0.0641	0.0485		mg/Kg	☼	76	32 - 146	7	58
Xylenes, Total	<0.013		0.128	0.0947		mg/Kg	☼	74	35 - 130	5	39

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*67 - 130*
Dibromofluoromethane	*96*		*77 - 127*
Toluene-d8 (Surr)	*105*		*76 - 127*

Lab Sample ID: MB 400-482494/16
Matrix: Water
Analysis Batch: 482494

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		1.0		ug/L			03/18/20 16:44	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			03/18/20 16:44	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			03/18/20 16:44	1
1,1-Dichloroethane	<1.0		1.0		ug/L			03/18/20 16:44	1
1,1-Dichloroethene	<1.0		1.0		ug/L			03/18/20 16:44	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			03/18/20 16:44	1

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

Lab Sample ID: MB 400-482494/16
Matrix: Water
Analysis Batch: 482494

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			03/18/20 16:44	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			03/18/20 16:44	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			03/18/20 16:44	1
1,2-Dichloroethane	<1.0		1.0		ug/L			03/18/20 16:44	1
1,2-Dichloropropane	<1.0		1.0		ug/L			03/18/20 16:44	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			03/18/20 16:44	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			03/18/20 16:44	1
2-Hexanone	<25		25		ug/L			03/18/20 16:44	1
Acetone	<25		25		ug/L			03/18/20 16:44	1
Benzene	<1.0		1.0		ug/L			03/18/20 16:44	1
Bromoform	<5.0		5.0		ug/L			03/18/20 16:44	1
Bromomethane	<1.0		1.0		ug/L			03/18/20 16:44	1
Carbon disulfide	<1.0		1.0		ug/L			03/18/20 16:44	1
Carbon tetrachloride	<1.0		1.0		ug/L			03/18/20 16:44	1
Chlorobenzene	<1.0		1.0		ug/L			03/18/20 16:44	1
Chlorobromomethane	<1.0		1.0		ug/L			03/18/20 16:44	1
Chloroethane	<1.0		1.0		ug/L			03/18/20 16:44	1
Chloroform	<1.0		1.0		ug/L			03/18/20 16:44	1
Chloromethane	<1.0		1.0		ug/L			03/18/20 16:44	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/18/20 16:44	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			03/18/20 16:44	1
Bromodichloromethane	<1.0		1.0		ug/L			03/18/20 16:44	1
Dibromochloromethane	<1.0		1.0		ug/L			03/18/20 16:44	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			03/18/20 16:44	1
Ethylbenzene	<1.0		1.0		ug/L			03/18/20 16:44	1
Ethylene Dibromide	<1.0		1.0		ug/L			03/18/20 16:44	1
Isopropylbenzene	<1.0		1.0		ug/L			03/18/20 16:44	1
Methyl Ethyl Ketone	<25		25		ug/L			03/18/20 16:44	1
methyl isobutyl ketone	<25		25		ug/L			03/18/20 16:44	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			03/18/20 16:44	1
Methylene Chloride	<5.0		5.0		ug/L			03/18/20 16:44	1
Styrene	<1.0		1.0		ug/L			03/18/20 16:44	1
Tetrachloroethene	<1.0		1.0		ug/L			03/18/20 16:44	1
Toluene	<1.0		1.0		ug/L			03/18/20 16:44	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/18/20 16:44	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			03/18/20 16:44	1
Trichloroethene	<1.0		1.0		ug/L			03/18/20 16:44	1
Trichlorofluoromethane	<1.0		1.0		ug/L			03/18/20 16:44	1
Methyl acetate	<5.0		5.0		ug/L			03/18/20 16:44	1
Vinyl chloride	<1.0		1.0		ug/L			03/18/20 16:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			03/18/20 16:44	1
Xylenes, Total	<10		10		ug/L			03/18/20 16:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*78 - 118*		*03/18/20 16:44*	*1*
Dibromofluoromethane	*91*		*81 - 121*		*03/18/20 16:44*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/18/20 16:44*	*1*

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

Lab Sample ID: LCS 400-482494/1002
Matrix: Water
Analysis Batch: 482494

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	50.0	47.0		ug/L		94	68 - 130
1,1,2,2-Tetrachloroethane	50.0	49.9		ug/L		100	70 - 131
1,1,2-Trichloroethane	50.0	43.5		ug/L		87	70 - 130
1,1-Dichloroethane	50.0	45.7		ug/L		91	70 - 130
1,1-Dichloroethene	50.0	47.0		ug/L		94	63 - 134
1,2,3-Trichlorobenzene	50.0	58.0		ug/L		116	60 - 138
1,2,4-Trichlorobenzene	50.0	57.0		ug/L		114	60 - 140
1,2-Dibromo-3-Chloropropane	50.0	46.7		ug/L		93	54 - 135
1,2-Dichlorobenzene	50.0	50.2		ug/L		100	67 - 130
1,2-Dichloroethane	50.0	45.4		ug/L		91	69 - 130
1,2-Dichloropropane	50.0	46.1		ug/L		92	70 - 130
1,3-Dichlorobenzene	50.0	51.6		ug/L		103	70 - 130
1,4-Dichlorobenzene	50.0	51.6		ug/L		103	70 - 130
2-Hexanone	200	153		ug/L		77	65 - 137
Acetone	200	133		ug/L		66	43 - 160
Benzene	50.0	45.4		ug/L		91	70 - 130
Bromoform	50.0	48.9		ug/L		98	57 - 140
Bromomethane	50.0	49.0		ug/L		98	10 - 160
Carbon disulfide	50.0	46.2		ug/L		92	61 - 137
Carbon tetrachloride	50.0	43.5		ug/L		87	61 - 137
Chlorobenzene	50.0	46.7		ug/L		93	70 - 130
Chlorobromomethane	50.0	42.8		ug/L		86	70 - 130
Chloroethane	50.0	44.6		ug/L		89	55 - 141
Chloroform	50.0	45.5		ug/L		91	69 - 130
Chloromethane	50.0	46.0		ug/L		92	58 - 137
cis-1,2-Dichloroethene	50.0	44.7		ug/L		89	68 - 130
cis-1,3-Dichloropropene	50.0	45.4		ug/L		91	69 - 132
Bromodichloromethane	50.0	45.6		ug/L		91	67 - 133
Dibromochloromethane	50.0	45.7		ug/L		91	67 - 135
Dichlorodifluoromethane	50.0	54.6		ug/L		109	41 - 146
Ethylbenzene	50.0	44.9		ug/L		90	70 - 130
Ethylene Dibromide	50.0	45.0		ug/L		90	70 - 130
Isopropylbenzene	50.0	46.6		ug/L		93	70 - 130
Methyl Ethyl Ketone	200	161		ug/L		81	61 - 145
methyl isobutyl ketone	200	162		ug/L		81	69 - 138
Methyl tert-butyl ether	50.0	45.1		ug/L		90	66 - 130
Methylene Chloride	50.0	47.5		ug/L		95	66 - 135
Styrene	50.0	45.1		ug/L		90	70 - 130
Tetrachloroethene	50.0	44.8		ug/L		90	65 - 130
Toluene	50.0	42.3		ug/L		85	70 - 130
trans-1,2-Dichloroethene	50.0	51.2		ug/L		102	70 - 130
trans-1,3-Dichloropropene	50.0	44.7		ug/L		89	63 - 130
Trichloroethene	50.0	46.6		ug/L		93	70 - 130
Trichlorofluoromethane	50.0	48.0		ug/L		96	65 - 138
Methyl acetate	100	77.6		ug/L		78	45 - 159
Vinyl chloride	50.0	57.4		ug/L		115	59 - 136
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.0		ug/L		90	60 - 139
Xylenes, Total	100	88.7		ug/L		89	70 - 130

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	*105*		*78 - 118*
Dibromofluoromethane	*95*		*81 - 121*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: 400-185087-A-1 MS
Matrix: Water
Analysis Batch: 482494

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<1.0		50.0	45.8		ug/L		92	57 - 142
1,1,2,2-Tetrachloroethane	<1.0		50.0	47.0		ug/L		94	66 - 135
1,1,2-Trichloroethane	<5.0		50.0	45.5		ug/L		91	66 - 131
1,1-Dichloroethane	<1.0		50.0	40.3		ug/L		81	61 - 144
1,1-Dichloroethene	<1.0		50.0	46.9		ug/L		94	54 - 147
1,2,3-Trichlorobenzene	<1.0		50.0	45.2		ug/L		90	43 - 145
1,2,4-Trichlorobenzene	<1.0		50.0	42.6		ug/L		85	39 - 148
1,2-Dibromo-3-Chloropropane	<5.0		50.0	45.7		ug/L		91	45 - 135
1,2-Dichlorobenzene	<1.0		50.0	41.4		ug/L		83	52 - 137
1,2-Dichloroethane	<1.0		50.0	37.1		ug/L		74	60 - 141
1,2-Dichloropropane	<1.0		50.0	44.9		ug/L		90	66 - 137
1,3-Dichlorobenzene	<1.0		50.0	39.4		ug/L		79	54 - 135
1,4-Dichlorobenzene	<1.0		50.0	39.5		ug/L		79	53 - 135
2-Hexanone	<25		200	166		ug/L		83	65 - 140
Acetone	<25		200	141		ug/L		70	43 - 150
Benzene	<1.0		50.0	43.8		ug/L		88	56 - 142
Bromoform	<5.0		50.0	47.0		ug/L		94	50 - 140
Bromomethane	<1.0		50.0	41.1		ug/L		82	10 - 150
Carbon disulfide	<1.0		50.0	42.8		ug/L		86	48 - 150
Carbon tetrachloride	<1.0		50.0	41.2		ug/L		82	55 - 145
Chlorobenzene	<1.0		50.0	41.1		ug/L		82	64 - 130
Chlorobromomethane	<1.0		50.0	49.2		ug/L		98	64 - 140
Chloroethane	<1.0		50.0	46.5		ug/L		93	50 - 150
Chloroform	<1.0		50.0	41.1		ug/L		82	60 - 141
Chloromethane	<1.0		50.0	38.8		ug/L		78	49 - 148
cis-1,2-Dichloroethene	<1.0		50.0	43.6		ug/L		87	59 - 143
cis-1,3-Dichloropropene	<5.0		50.0	44.2		ug/L		88	57 - 140
Bromodichloromethane	<1.0		50.0	44.2		ug/L		88	59 - 143
Dibromochloromethane	<1.0		50.0	44.9		ug/L		90	56 - 143
Dichlorodifluoromethane	<1.0		50.0	49.9		ug/L		100	16 - 150
Ethylbenzene	<1.0		50.0	39.2		ug/L		78	58 - 131
Ethylene Dibromide	<1.0		50.0	46.2		ug/L		92	64 - 132
Isopropylbenzene	<1.0		50.0	37.8		ug/L		76	56 - 133
Methyl Ethyl Ketone	<25		200	171		ug/L		86	55 - 150
methyl isobutyl ketone	<25		200	165		ug/L		82	63 - 146
Methyl tert-butyl ether	<1.0		50.0	45.6		ug/L		91	59 - 137
Methylene Chloride	<5.0		50.0	47.9		ug/L		96	60 - 146
Styrene	<1.0		50.0	40.0		ug/L		80	58 - 131
Tetrachloroethene	<1.0		50.0	37.1		ug/L		74	52 - 133
Toluene	<1.0		50.0	39.2		ug/L		78	65 - 130
trans-1,2-Dichloroethene	<1.0		50.0	45.0		ug/L		90	61 - 143
trans-1,3-Dichloropropene	<5.0		50.0	43.1		ug/L		86	53 - 133

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

Lab Sample ID: 400-185087-A-1 MS
Matrix: Water
Analysis Batch: 482494

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	<1.0		50.0	42.6		ug/L		85	64 - 136
Trichlorofluoromethane	<1.0		50.0	42.0		ug/L		84	54 - 150
Methyl acetate	<5.0		100	80.0		ug/L		80	21 - 150
Vinyl chloride	<1.0		50.0	49.8		ug/L		100	46 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		50.0	29.7		ug/L		59	55 - 150
Xylenes, Total	<10		100	76.2		ug/L		76	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*78 - 118*
Dibromofluoromethane	*91*		*81 - 121*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: 400-185087-A-1 MSD
Matrix: Water
Analysis Batch: 482494

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<1.0		50.0	42.6		ug/L		85	57 - 142	7	30
1,1,2,2-Tetrachloroethane	<1.0		50.0	44.6		ug/L		89	66 - 135	5	30
1,1,2-Trichloroethane	<5.0		50.0	42.4		ug/L		85	66 - 131	7	30
1,1-Dichloroethane	<1.0		50.0	39.6		ug/L		79	61 - 144	2	30
1,1-Dichloroethene	<1.0		50.0	42.6		ug/L		85	54 - 147	10	30
1,2,3-Trichlorobenzene	<1.0		50.0	41.6		ug/L		83	43 - 145	8	30
1,2,4-Trichlorobenzene	<1.0		50.0	38.1		ug/L		76	39 - 148	11	30
1,2-Dibromo-3-Chloropropane	<5.0		50.0	43.3		ug/L		87	45 - 135	5	30
1,2-Dichlorobenzene	<1.0		50.0	36.2		ug/L		72	52 - 137	13	30
1,2-Dichloroethane	<1.0		50.0	36.0		ug/L		72	60 - 141	3	30
1,2-Dichloropropane	<1.0		50.0	41.8		ug/L		84	66 - 137	7	30
1,3-Dichlorobenzene	<1.0		50.0	34.4		ug/L		69	54 - 135	14	30
1,4-Dichlorobenzene	<1.0		50.0	34.4		ug/L		69	53 - 135	14	30
2-Hexanone	<25		200	153		ug/L		77	65 - 140	8	30
Acetone	<25		200	122		ug/L		61	43 - 150	14	30
Benzene	<1.0		50.0	40.0		ug/L		80	56 - 142	9	30
Bromoform	<5.0		50.0	44.2		ug/L		88	50 - 140	6	30
Bromomethane	<1.0		50.0	45.2		ug/L		90	10 - 150	10	50
Carbon disulfide	<1.0		50.0	40.3		ug/L		81	48 - 150	6	30
Carbon tetrachloride	<1.0		50.0	39.2		ug/L		78	55 - 145	5	30
Chlorobenzene	<1.0		50.0	35.7		ug/L		71	64 - 130	14	30
Chlorobromomethane	<1.0		50.0	40.2		ug/L		80	64 - 140	20	30
Chloroethane	<1.0		50.0	42.4		ug/L		85	50 - 150	9	30
Chloroform	<1.0		50.0	40.6		ug/L		81	60 - 141	1	30
Chloromethane	<1.0		50.0	41.4		ug/L		83	49 - 148	7	31
cis-1,2-Dichloroethene	<1.0		50.0	40.0		ug/L		80	59 - 143	9	30
cis-1,3-Dichloropropene	<5.0		50.0	40.3		ug/L		81	57 - 140	9	30
Bromodichloromethane	<1.0		50.0	40.7		ug/L		81	59 - 143	8	30
Dibromochloromethane	<1.0		50.0	40.1		ug/L		80	56 - 143	11	30
Dichlorodifluoromethane	<1.0		50.0	52.3		ug/L		105	16 - 150	5	31
Ethylbenzene	<1.0		50.0	31.9		ug/L		64	58 - 131	20	30

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

Lab Sample ID: 400-185087-A-1 MSD
Matrix: Water
Analysis Batch: 482494

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide	<1.0		50.0	41.4		ug/L		83	64 - 132	11	30
Isopropylbenzene	<1.0		50.0	30.2		ug/L		60	56 - 133	22	30
Methyl Ethyl Ketone	<25		200	157		ug/L		78	55 - 150	9	30
methyl isobutyl ketone	<25		200	155		ug/L		77	63 - 146	6	30
Methyl tert-butyl ether	<1.0		50.0	43.9		ug/L		88	59 - 137	4	30
Methylene Chloride	<5.0		50.0	43.3		ug/L		87	60 - 146	10	32
Styrene	<1.0		50.0	33.0		ug/L		66	58 - 131	19	30
Tetrachloroethene	<1.0		50.0	31.2		ug/L		62	52 - 133	17	30
Toluene	<1.0		50.0	33.7		ug/L		67	65 - 130	15	30
trans-1,2-Dichloroethene	<1.0		50.0	44.4		ug/L		89	61 - 143	1	30
trans-1,3-Dichloropropene	<5.0		50.0	38.3		ug/L		77	53 - 133	12	30
Trichloroethene	<1.0		50.0	39.2		ug/L		78	64 - 136	8	30
Trichlorofluoromethane	<1.0		50.0	42.2		ug/L		84	54 - 150	0	30
Methyl acetate	<5.0		100	70.7		ug/L		71	21 - 150	12	30
Vinyl chloride	<1.0		50.0	50.8		ug/L		102	46 - 150	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		50.0	28.8		ug/L		58	55 - 150	3	30
Xylenes, Total	<10		100	63.2		ug/L		63	59 - 130	19	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*78 - 118*
Dibromofluoromethane	*98*		*81 - 121*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 400-482296/2-A
Matrix: Solid
Analysis Batch: 482255

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 482296

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<0.10		0.10		mg/Kg		03/17/20 10:00	03/17/20 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*103*		*65 - 125*	*03/17/20 10:00*	*03/17/20 11:27*	*1*

Lab Sample ID: LCS 400-482296/1-A
Matrix: Solid
Analysis Batch: 482255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 482296

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C6-C10			1.00	1.06		mg/Kg		106	62 - 141		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*102*		*65 - 125*

Method: 8015C - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 400-185244-3 MS
Matrix: Solid
Analysis Batch: 482255

Client Sample ID: TW-17
Prep Type: Total/NA
Prep Batch: 482296

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	<7.2		71.5	84.7		mg/Kg	☼	118	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*101*		*65 - 125*

Lab Sample ID: 400-185244-3 MSD
Matrix: Solid
Analysis Batch: 482255

Client Sample ID: TW-17
Prep Type: Total/NA
Prep Batch: 482296

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	<7.2		71.5	86.8		mg/Kg	☼	121	10 - 150	2	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*102*		*65 - 125*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 400-482003/3
Matrix: Water
Analysis Batch: 482003

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	<100		100		ug/L			03/15/20 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*104*		*78 - 119*		*03/15/20 12:06*	*1*

Lab Sample ID: LCS 400-482003/1002
Matrix: Water
Analysis Batch: 482003

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10			1000	1050		ug/L		105	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*101*		*78 - 119*

Lab Sample ID: 400-185239-C-3 MS
Matrix: Water
Analysis Batch: 482003

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	<100		1000	1080		ug/L		108	35 - 150

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: 400-185239-C-3 MS
Matrix: Water
Analysis Batch: 482003

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	*100*		*78 - 119*

Lab Sample ID: 400-185239-C-3 MSD
Matrix: Water
Analysis Batch: 482003

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	<100		1000	1030		ug/L		103	35 - 150	5	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	*99*		*78 - 119*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 400-482052/1-A
Matrix: Water
Analysis Batch: 482341

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 482052

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	832		130		ug/L		03/16/20 09:26	03/17/20 16:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	*95*		*40 - 140*	*03/16/20 09:26*	*03/17/20 16:12*	*1*

Lab Sample ID: LCS 400-482052/2-A
Matrix: Water
Analysis Batch: 482341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 482052

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			17000	13800		ug/L		81	40 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	*111*		*40 - 140*

Lab Sample ID: LCSD 400-482052/3-A
Matrix: Water
Analysis Batch: 482341

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 482052

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			17000	13100		ug/L		77	40 - 120	5	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl (Surr)	*97*		*40 - 140*

Method: 8015C - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 400-482811/1-A
Matrix: Water
Analysis Batch: 483184

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 482811

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<130		130		ug/L		03/20/20 08:48	03/23/20 14:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*93*		*40 - 140*	*03/20/20 08:48*	*03/23/20 14:01*	*1*

Lab Sample ID: LCS 400-482811/2-A
Matrix: Water
Analysis Batch: 483184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 482811

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	16700	13200		ug/L		79	40 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*108*		*40 - 140*

Lab Sample ID: LCSD 400-482811/3-A
Matrix: Water
Analysis Batch: 483184

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 482811

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	16700	12600		ug/L		75	40 - 120	5	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*94*		*40 - 140*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 400-481786/1-A
Matrix: Solid
Analysis Batch: 482382

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481786

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<5.0		5.0		mg/Kg		03/13/20 10:12	03/18/20 04:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*75*		*27 - 151*	*03/13/20 10:12*	*03/18/20 04:22*	*1*

Lab Sample ID: LCS 400-481786/2-A
Matrix: Solid
Analysis Batch: 482382

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	344	256		mg/Kg		74	38 - 138

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) (Continued)

Lab Sample ID: LCS 400-481786/2-A
Matrix: Solid
Analysis Batch: 482382

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481786

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*99*		*27 - 151*

Lab Sample ID: 400-185251-A-1-A MS
Matrix: Solid
Analysis Batch: 482382

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 481786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	98		376	331		mg/Kg	☼	62	62 - 204

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*101*		*27 - 151*

Lab Sample ID: 400-185251-A-1-B MSD
Matrix: Solid
Analysis Batch: 482382

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 481786

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	98		382	390		mg/Kg	☼	76	62 - 204	17	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*119*		*27 - 151*

Method: Moisture - Percent Moisture

Lab Sample ID: 400-185342-A-1 DU
Matrix: Solid
Analysis Batch: 482059

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	0.9		0.7	F3	%		23	10

QC Association Summary

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-185244-1

GC/MS VOA

Analysis Batch: 482400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-185244-3	TW-17	Total/NA	Solid	8260B	482427
MB 400-482427/1-A	Method Blank	Total/NA	Solid	8260B	482427
LCS 400-482427/2-A	Lab Control Sample	Total/NA	Solid	8260B	482427
400-185096-A-2-E MS	Matrix Spike	Total/NA	Solid	8260B	482427
400-185096-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	482427

Prep Batch: 482427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-185244-3	TW-17	Total/NA	Solid	5035	
MB 400-482427/1-A	Method Blank	Total/NA	Solid	5035	
LCS 400-482427/2-A	Lab Control Sample	Total/NA	Solid	5035	
400-185096-A-2-E MS	Matrix Spike	Total/NA	Solid	5035	
400-185096-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 482494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-185244-1	TW-17	Total/NA	Water	8260B	
400-185244-2	DUPLICATE	Total/NA	Water	8260B	
MB 400-482494/16	Method Blank	Total/NA	Water	8260B	
LCS 400-482494/1002	Lab Control Sample	Total/NA	Water	8260B	
400-185087-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
400-185087-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 482003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-185244-1	TW-17	Total/NA	Water	8015C	
400-185244-2	DUPLICATE	Total/NA	Water	8015C	
MB 400-482003/3	Method Blank	Total/NA	Water	8015C	
LCS 400-482003/1002	Lab Control Sample	Total/NA	Water	8015C	
400-185239-C-3 MS	Matrix Spike	Total/NA	Water	8015C	
400-185239-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	

Analysis Batch: 482255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-185244-3	TW-17	Total/NA	Solid	8015C	482296
MB 400-482296/2-A	Method Blank	Total/NA	Solid	8015C	482296
LCS 400-482296/1-A	Lab Control Sample	Total/NA	Solid	8015C	482296
400-185244-3 MS	TW-17	Total/NA	Solid	8015C	482296
400-185244-3 MSD	TW-17	Total/NA	Solid	8015C	482296

Prep Batch: 482296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-185244-3	TW-17	Total/NA	Solid	5035	
MB 400-482296/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-482296/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-185244-3 MS	TW-17	Total/NA	Solid	5035	
400-185244-3 MSD	TW-17	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 481786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-185244-3	TW-17	Total/NA	Solid	3546	
MB 400-481786/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-481786/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-185251-A-1-A MS	Matrix Spike	Total/NA	Solid	3546	
400-185251-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 482052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-185244-1	TW-17	Total/NA	Water	3510C	
400-185244-2	DUPLICATE	Total/NA	Water	3510C	
MB 400-482052/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-482052/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-482052/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 482341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-185244-1	TW-17	Total/NA	Water	8015C	482052
400-185244-2	DUPLICATE	Total/NA	Water	8015C	482052
MB 400-482052/1-A	Method Blank	Total/NA	Water	8015C	482052
LCS 400-482052/2-A	Lab Control Sample	Total/NA	Water	8015C	482052
LCSD 400-482052/3-A	Lab Control Sample Dup	Total/NA	Water	8015C	482052

Analysis Batch: 482382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-185244-3	TW-17	Total/NA	Solid	8015C	481786
MB 400-481786/1-A	Method Blank	Total/NA	Solid	8015C	481786
LCS 400-481786/2-A	Lab Control Sample	Total/NA	Solid	8015C	481786
400-185251-A-1-A MS	Matrix Spike	Total/NA	Solid	8015C	481786
400-185251-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015C	481786

Prep Batch: 482811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-185244-1 - RE	TW-17	Total/NA	Water	3510C	
400-185244-2 - RE	DUPLICATE	Total/NA	Water	3510C	
MB 400-482811/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-482811/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-482811/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 483184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-185244-1 - RE	TW-17	Total/NA	Water	8015C	482811
400-185244-2 - RE	DUPLICATE	Total/NA	Water	8015C	482811
MB 400-482811/1-A	Method Blank	Total/NA	Water	8015C	482811
LCS 400-482811/2-A	Lab Control Sample	Total/NA	Water	8015C	482811
LCSD 400-482811/3-A	Lab Control Sample Dup	Total/NA	Water	8015C	482811

General Chemistry

Analysis Batch: 482059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-185244-3	TW-17	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 482059 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-185342-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-185244-1

Client Sample ID: TW-17
Date Collected: 03/10/20 17:30
Date Received: 03/12/20 08:55

Lab Sample ID: 400-185244-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	482494	03/19/20 00:11	RS	TAL PEN
Total/NA	Analysis	8015C		1	482003	03/15/20 19:59	CMW	TAL PEN
Total/NA	Prep	3510C	RE		482811	03/20/20 08:49	CAO	TAL PEN
Total/NA	Analysis	8015C	RE	1	483184	03/23/20 16:32	JAW	TAL PEN
Total/NA	Prep	3510C			482052	03/16/20 09:27	CAO	TAL PEN
Total/NA	Analysis	8015C		1	482341	03/17/20 19:28	TAJ	TAL PEN

Client Sample ID: DUPLICATE
Date Collected: 03/10/20 17:30
Date Received: 03/12/20 08:55

Lab Sample ID: 400-185244-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	482494	03/19/20 00:41	RS	TAL PEN
Total/NA	Analysis	8015C		1	482003	03/15/20 20:31	CMW	TAL PEN
Total/NA	Prep	3510C	RE		482811	03/20/20 08:49	CAO	TAL PEN
Total/NA	Analysis	8015C	RE	1	483184	03/23/20 16:44	JAW	TAL PEN
Total/NA	Prep	3510C			482052	03/16/20 09:27	CAO	TAL PEN
Total/NA	Analysis	8015C		1	482341	03/17/20 19:38	TAJ	TAL PEN

Client Sample ID: TW-17
Date Collected: 03/09/20 18:00
Date Received: 03/12/20 08:55

Lab Sample ID: 400-185244-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	482059	03/16/20 10:34	BKG	TAL PEN

Client Sample ID: TW-17
Date Collected: 03/09/20 18:00
Date Received: 03/12/20 08:55

Lab Sample ID: 400-185244-3
Matrix: Solid
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			482427	03/18/20 06:31	RS	TAL PEN
Total/NA	Analysis	8260B		1	482400	03/18/20 12:36	RS	TAL PEN
Total/NA	Prep	5035			482296	03/17/20 13:31	CMW	TAL PEN
Total/NA	Analysis	8015C		50	482255	03/17/20 13:53	CMW	TAL PEN
Total/NA	Prep	3546			481786	03/13/20 10:12	SHB	TAL PEN
Total/NA	Analysis	8015C		1	482382	03/18/20 06:31	JAW	TAL PEN

Laboratory References:
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-185244-1

Laboratory: Eurofins TestAmerica, Pensacola

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Virginia	NELAP	460166	06-14-20

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
8260B		Water	Dibromofluoromethane
8260B	5035	Solid	Dibromofluoromethane
Moisture		Solid	Percent Moisture

Method Summary

Client: SCS Engineers
Project/Site: St. Paul's

Job ID: 400-185244-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8015C	Gasoline Range Organics (GRO) (GC)	SW846	TAL PEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL PEN
8015C	Diesel Range Organics (DRO) (GC)	EPA	TAL PEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL PEN
Moisture	Percent Moisture	EPA	TAL PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL PEN
3546	Microwave Extraction	SW846	TAL PEN
5030B	Purge and Trap	SW846	TAL PEN
5030C	Purge and Trap	SW846	TAL PEN
5035	Closed System Purge and Trap	SW846	TAL PEN

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 PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

St. Paul

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Austin Drouger	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-92537-33727.1
Client Contact: Alexis Holcomb	Phone: 571-353-2000	E-Mail: mark.swafford@testamericainc.com		Page: Page 1 of 1
Company: SCS Engineers				Job #:
Address: 2877 Guardian Lane Suite 1-F	Due Date Requested:			
City: Virginia Beach	TAT Requested (days):			
State, Zip: VA, 23452				
Phone: 757-201-9264(Tel)	PO #: PO 02-RE03788-4			
Email: adrouger@scsengineers.com AHolcomb@scsengineers.com	WO #:			
Project Name: St.Paul's Sampling	Project #: 40005152			
Site:	SSOW#:			

Analysis Requested

400-185244 COC

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)	8082A - TCL PCBs by 8082A	8270D - TCL Semivolatiles	8015C_DRO - DRO C10-C28	8015C_GRO - GRO (C6-C10)	8260B - TCL Volatiles	8260B	DRO/GRO	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	A	A	A			X	
TW-17	3/10/20	1730	Grab	Water			X	X	X	X	X				
DUPLICATE	3/10/20	1730	Grab	Water			X	X	X	X	X				
TW-17	3/9/20		Grab	Soil								X	X		

Virginia Beach #202

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:

	Date/Time	Company		Date/Time	Company
Relinquished by:	3/10/2020 1000		Received by:	3/11/20 1246	ETA
Relinquished by:	3/11/20 1630	ETA	Received by:	3/12/20 855	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.1°C IR8

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 400-185244-1

Login Number: 185244
List Number: 1
Creator: Hinrichsen, Megan E

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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°C IR-8
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 containers received 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.	False	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	Refer to Job Narrative for details.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX D – GROUNDWATER SAMPLING LOGS

Well Sampling / MicroPurge Log

SCS ENGINEERS
2877 Guardian Lane, Suite 1-F
Virginia Beach Virginia 23452
(757)-466-3361

Project Name:	St. Paul's Transit Site	**Job Number:**	02218113.09
Well Number:	TW-1 (B-1)	**Date:**	1/27/2020
Well Diameter (in):	1	**Pump Used:**	Peristaltic
Depth to Pump (ft):	~10.5	**1 Well Volume (gal):**	0.24
Total Well Depth (ft):	11.5	**Purging Time Initiated:**	11:43
Depth to Water (ft):	5.45	**Purging Time Completed:**	12:15
Water Column Thickness (ft):	6.05	**Total Gallons Purged:**	0.9

WELL PURGING RECORD

Time	Volume Purged (gallons)	10% Temperature (°C)	10% D.O. (mg/L)	±10 ORP (mV)	10% pH (s.u.)	3% Specific Conductance (mS/cm)	10% or <=5 Turbidity (NTU)	Comments (water color, odor, sediment, cloudy, etc.)
11:48	0.10	14.2	1.27	112	6.9	0.68	305	cloudy tan
11:53	0.25	14.3	0.54	108	6.84	0.68	550	cloudy, slowed purge
11:58	0.30	14.6	0.46	104	6.83	0.69	391	cloudy, no odor, no particles
12:03	0.50	14.1	0.37	99	6.82	0.69	144	
12:08	0.70	14.4	0.33	92	6.82	0.70	75	
12:13	0.90	14.2	0.28	87	6.79	0.70	54	clear

GROUNDWATER SAMPLING RECORD

Sample Number	Collection Time	Parameter	Container	Preservative
TW-1	12:15	8260B - TCL Volatiles	3 - 40mL VOA	HCl
		8015C - TPH DRO	2 - 250mL amber	HCl
		8015C - TPH GRO	3 - 40mL VOA	HCl

Samples Shipped By: courier
Laboratory: TestAmerica
Sampler(s): ALH
Checked By:

Well Sampling / MicroPurge Log

SCS ENGINEERS
2877 Guardian Lane, Suite 1-F
Virginia Beach Virginia 23452
(757)-466-3361

Project Name:	St. Paul's Transit Site	**Job Number:**	02218113.09
Well Number:	TW-2 (B-2)	**Date:**	1/27/2020
Well Diameter (in):	1	**Pump Used:**	Peristaltic
Depth to Pump (ft):	~9	**1 Well Volume (gal):**	0.30
Total Well Depth (ft):	10	**Purging Time Initiated:**	10:27
Depth to Water (ft):	2.54	**Purging Time Completed:**	11:07
Water Column Thickness (ft):	7.46	**Total Gallons Purged:**	1.2

WELL PURGING RECORD

Time	Volume Purged (gallons)	10% Temperature (°C)	10% D.O. (mg/L)	±10 ORP (mV)	10% pH (s.u.)	3% Specific Conductance (mS/cm)	10% or <=5 Turbidity (NTU)	Comments (water color, odor, sediment, cloudy, etc.)
10:32	0.10	13.9	3.26	127	6.51	0.95	1100+	cloudy milky-tan, no odor
10:37	0.30	13.1	3.35	120	6.55	0.93	510	
10:42	0.40	13.4	2.58	114	6.62	0.92	212	cloudy white/grey, no particles/odor
10:47	0.60	13.4	2.21	110	6.63	0.90	80	clear
10:52	0.80	13.2	1.86	107	6.68	0.87	46	
10:57	0.90	13.7	1.73	104	6.63	0.85	38	
11:02	1.10	13.4	1.5	102	6.66	0.83	27	

GROUNDWATER SAMPLING RECORD

Sample Number	Collection Time	Parameter	Container	Preservative
TW-2	11:07	8260B - TCL Volatiles	3 - 40mL VOA	HCl
		8015C - TPH DRO	2 - 250mL amber	HCl
		8015C - TPH GRO	3 - 40mL VOA	HCl

Samples Shipped By: courier
Laboratory: TestAmerica
Sampler(s): ALH
Checked By:

Well Sampling / MicroPurge Log

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Virginia Beach Virginia 23452
(757)-466-3361

Project Name:	St. Paul's Transit Site	**Job Number:**	02218113.09
Well Number:	TW-3 (B-3)	**Date:**	1/27/2020
Well Diameter (in):	1	**Pump Used:**	Peristaltic
Depth to Pump (ft):	~9	**1 Well Volume (gal):**	0.19
Total Well Depth (ft):	10	**Purging Time Initiated:**	13:20
Depth to Water (ft):	5.16	**Purging Time Completed:**	13:50
Water Column Thickness (ft):	4.84	**Total Gallons Purged:**	1.0

WELL PURGING RECORD

Time	Volume Purged (gallons)	10% Temperature (°C)	10% D.O. (mg/L)	±10 ORP (mV)	10% pH (s.u.)	3% Specific Conductance (mS/cm)	10% or <=5 Turbidity (NTU)	Comments (water color, odor, sediment, cloudy, etc.)
13:25	0.10	16.4	0.71	78	6.61	0.82	1100+	cloudy tan, no odor/particles
13:30	0.25	16.7	0.77	74	6.57	0.79	434	cloudy, milky white
13:35	0.35	16.6	0.69	74	6.57	0.76	141	
13:40	0.50	16.6	0.69	73	6.56	0.75	72	clear
13:45	0.875	16.9	0.65	72	6.55	0.74	38	

GROUNDWATER SAMPLING RECORD

Sample Number	Collection Time	Parameter	Container	Preservative
TW-3	13:50	8260B - TCL VOCs ; 8015C - TPH GRO	6 - 40mL VOA	HCl
		8015C - TPH DRO	2 - 250mL amber	HCl
		8082A - TCL PCBs; 8270D - TCL SVOCs	4 - 250mL amber	none

Samples Shipped By: courier
Laboratory: TestAmerica
Sampler(s): ALH
Checked By:

Well Sampling / MicroPurge Log

SCS ENGINEERS
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Virginia Beach Virginia 23452
(757)-466-3361

Project Name:	St. Paul's Transit Site	**Job Number:**	02218113.09
Well Number:	TW-4 (B-4)	**Date:**	1/29/2020
Well Diameter (in):	1	**Pump Used:**	Peristaltic
Depth to Pump (ft):	~10.5	**1 Well Volume (gal):**	0.26
Total Well Depth (ft):	11.5	**Purging Time Initiated:**	8:12
Depth to Water (ft):	5.01	**Purging Time Completed:**	8:45
Water Column Thickness (ft):	6.49	**Total Gallons Purged:**	0.9

WELL PURGING RECORD

Time	Volume Purged (gallons)	10% Temperature (^{o}C)	10% D.O. (mg/L)	±10 ORP (mV)	10% pH (s.u.)	3% Specific Conductance (mS/cm)	10% or <=5 Turbidity (NTU)	Comments (water color, odor, sediment, cloudy, etc.)
8:17	0.20	14.4	1.08	121	6.69	0.89	387	cloudy, muddy tan, no odor
8:22	0.35	14.8	0.72	112	6.62	0.83	181	no particles
8:27	0.50	15.1	0.49	102	6.58	0.81	72	
8:32	0.65	14.5	0.39	97	6.58	0.80	45	clear
8:37	0.75	14.1	0.33	92	6.57	0.79	25	
8:42	0.85	14.6	0.27	88	6.57	0.78	16	

GROUNDWATER SAMPLING RECORD

Sample Number	Collection Time	Parameter	Container	Preservative
TW-4	8:45	8260B - TCL VOCs ; 8015C - TPH GRO	6 - 40mL VOA	HCl
		8015C - TPH DRO	2 - 250mL amber	HCl
		8082A - TCL PCBs; 8270D - TCL SVOCs	4 - 250mL amber	none

Samples Shipped By: courier
Laboratory: TestAmerica
Sampler(s): ALH
Checked By:

Well Sampling / MicroPurge Log

SCS ENGINEERS
2877 Guardian Lane, Suite 1-F
Virginia Beach Virginia 23452
(757)-466-3361

Project Name:	St. Paul's Transit Site	**Job Number:**	02218113.09
Well Number:	TW-5 (B-5)	**Date:**	1/29/2020
Well Diameter (in):	1	**Pump Used:**	Peristaltic
Depth to Pump (ft):	~9	**1 Well Volume (gal):**	0.21
Total Well Depth (ft):	10	**Purging Time Initiated:**	9:42
Depth to Water (ft):	4.73	**Purging Time Completed:**	10:20
Water Column Thickness (ft):	5.27	**Total Gallons Purged:**	1.0

WELL PURGING RECORD

Time	Volume Purged (gallons)	10% Temperature (^{o}C)	10% D.O. (mg/L)	±10 ORP (mV)	10% pH (s.u.)	3% Specific Conductance (mS/cm)	10% or <=5 Turbidity (NTU)	Comments (water color, odor, sediment, cloudy, etc.)
9:47	0.10	13.8	3.22	88	6.88	0.610	689	cloudy tan, no odor
9:52	0.25	13.6	2.88	88	6.83	0.612	370	
9:57	0.375	13.7	2.78	88	6.82	0.609	84	clearing up
10:02	0.50	13.9	2.62	89	6.79	0.614	47	
10:07	0.675	13.8	2.55	89	6.78	0.616	32	clear
10:12	0.75	14.2	2.44	89	6.77	0.619	22	
10:17	0.875	14.5	2.37	89	6.75	0.620	14	

GROUNDWATER SAMPLING RECORD

Sample Number	Collection Time	Parameter	Container	Preservative
TW-5	10:20	8260B - TCL Volatiles	3 - 40mL VOA	HCl
		8015C - TPH DRO	2 - 250mL amber	HCl
		8015C - TPH GRO	3 - 40mL VOA	HCl

Samples Shipped By: courier
Laboratory: TestAmerica
Sampler(s): ALH
Checked By:

Well Sampling / MicroPurge Log

SCS ENGINEERS
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Virginia Beach Virginia 23452
(757)-466-3361

Project Name:	St. Paul's Transit Site	**Job Number:**	02218113.09
Well Number:	TW-6 (B-6)	**Date:**	1/27/2020
Well Diameter (in):	1	**Pump Used:**	Peristaltic
Depth to Pump (ft):	~9	**1 Well Volume (gal):**	0.24
Total Well Depth (ft):	10	**Purging Time Initiated:**	11:01
Depth to Water (ft):	3.9	**Purging Time Completed:**	11:40
Water Column Thickness (ft):	6.1	**Total Gallons Purged:**	1.0

WELL PURGING RECORD

Time	Volume Purged (gallons)	10% Temperature (°C)	10% D.O. (mg/L)	±10 ORP (mV)	10% pH (s.u.)	3% Specific Conductance (mS/cm)	10% or <=5 Turbidity (NTU)	Comments (water color, odor, sediment, cloudy, etc.)
11:06	0.125	15.6	0.6	92	6.87	0.77	1100+	cloudy tan, no odor
11:11	0.25	15.6	0.53	91	6.85	0.77	595	
11:16	0.375	15.6	0.34	88	6.84	0.77	486	
11:21	0.55	15.4	0.33	87	6.84	0.77	321	
11:26	0.70	15.2	0.34	86	6.84	0.77	211	
11:31	0.80	15.4	0.26	84	6.85	0.77	161	
11:36	0.975	15.3	0.24	83	6.83	0.77	129	

GROUNDWATER SAMPLING RECORD

Sample Number	Collection Time	Parameter	Container	Preservative
TW-6	11:40	8260B - TCL Volatiles	3 - 40mL VOA	HCl
		8015C - TPH DRO	2 - 250mL amber	HCl
		8015C - TPH GRO	3 - 40mL VOA	HCl

Samples Shipped By: courier
Laboratory: TestAmerica
Sampler(s): ALH
Checked By:

Well Sampling / MicroPurge Log

SCS ENGINEERS
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Virginia Beach Virginia 23452
(757)-466-3361

Project Name:	St. Paul's Transit Site	**Job Number:**	02218113.09
Well Number:	TW-7 (B-7)	**Date:**	1/27/2020
Well Diameter (in):	1	**Pump Used:**	Peristaltic
Depth to Pump (ft):	~8	**1 Well Volume (gal):**	0.20
Total Well Depth (ft):	9	**Purging Time Initiated:**	12:02
Depth to Water (ft):	4.06	**Purging Time Completed:**	12:40
Water Column Thickness (ft):	4.94	**Total Gallons Purged:**	1.0

WELL PURGING RECORD

Time	Volume Purged (gallons)	10% Temperature (°C)	10% D.O. (mg/L)	±10 ORP (mV)	10% pH (s.u.)	3% Specific Conductance (mS/cm)	10% or <=5 Turbidity (NTU)	Comments (water color, odor, sediment, cloudy, etc.)
12:07	0.125	13.3	0.96	75	6.94	0.567	813	cloudy brown slight petroleum odor
12:12	0.25	12.9	0.85	77	6.90	0.559	1100+	
12:17	0.39	12.4	0.77	78	6.89	0.561	301	grey color
12:22	0.65	11.7	0.77	78	6.89	0.566	99	clearer, strong odor
12:27	0.75	12.1	0.74	78	6.87	0.562	50	
12:32	0.875	12	0.75	78	6.89	0.561	38	clear
12:37	1.00	11.9	0.72	78	6.87	0.560	38	

GROUNDWATER SAMPLING RECORD

Sample Number	Collection Time	Parameter	Container	Preservative
TW-7	12:40	8260B - TCL Volatiles	3 - 40mL VOA	HCl
		8015C - TPH DRO	2 - 250mL amber	HCl
		8015C - TPH GRO	3 - 40mL VOA	HCl

Samples Shipped By: courier
Laboratory: TestAmerica
Sampler(s): ALH
Checked By:

Well Sampling / MicroPurge Log

SCS ENGINEERS
2877 Guardian Lane, Suite 1-F
Virginia Beach Virginia 23452
(757)-466-3361

Project Name:	St. Paul's Transit Site	**Job Number:**	02218113.09
Well Number:	TW-8 (B-8)	**Date:**	1/30/2020
Well Diameter (in):	1	**Pump Used:**	Peristaltic
Depth to Pump (ft):	~11	**1 Well Volume (gal):**	0.30
Total Well Depth (ft):	12	**Purging Time Initiated:**	8:49
Depth to Water (ft):	4.6	**Purging Time Completed:**	9:30
Water Column Thickness (ft):	7.4	**Total Gallons Purged:**	1.0

WELL PURGING RECORD

Time	Volume Purged (gallons)	10% Temperature (^{o}C)	10% D.O. (mg/L)	±10 ORP (mV)	10% pH (s.u.)	3% Specific Conductance (mS/cm)	10% or <=5 Turbidity (NTU)	Comments (water color, odor, sediment, cloudy, etc.)
8:54	0.125	12.5	2.23	107	6.93	0.71	1100+	cloudy brown, no odor
8:59	0.250	12.1	2.04	107	6.91	0.71	1040	
9:04	0.375	11.8	2.07	108	6.9	0.71	292	cloudy grey color
9:09	0.500	12.1	2.04	108	6.91	0.71	109	
9:14	0.625	12.2	2.04	107	6.91	0.71	52	clear
9:19	0.750	12.3	2.01	107	6.91	0.71	32	
9:24	0.875	12.3	1.99	107	6.9	0.71	16	

GROUNDWATER SAMPLING RECORD

Sample Number	Collection Time	Parameter	Container	Preservative
TW-8	9:30	8260B - TCL Volatiles	3 - 40mL VOA	HCl
		8015C - TPH DRO	2 - 250mL amber	HCl
		8015C - TPH GRO	3 - 40mL VOA	HCl

Samples Shipped By: courier
Laboratory: TestAmerica
Sampler(s): ALH
Checked By:

Well Sampling / MicroPurge Log

SCS ENGINEERS
2877 Guardian Lane, Suite 1-F
Virginia Beach Virginia 23452
(757)-466-3361

Project Name:	St. Paul's Transit Site	**Job Number:**	02218113.09
Well Number:	TW-9 (B-9)	**Date:**	1/30/2020
Well Diameter (in):	1	**Pump Used:**	Peristaltic
Depth to Pump (ft):	~11	**1 Well Volume (gal):**	0.28
Total Well Depth (ft):	12	**Purging Time Initiated:**	7:43
Depth to Water (ft):	4.96	**Purging Time Completed:**	8:20
Water Column Thickness (ft):	7.04	**Total Gallons Purged:**	1.0

WELL PURGING RECORD

Time	Volume Purged (gallons)	10% Temperature (^{o}C)	10% D.O. (mg/L)	±10 ORP (mV)	10% pH (s.u.)	3% Specific Conductance (mS/cm)	10% or <=5 Turbidity (NTU)	Comments (water color, odor, sediment, cloudy, etc.)
7:48	0.125	13.2	1.17	125	6.68	0.93	1100+	muddy brown, no odor
7:53	0.250	12.7	0.97	119	6.69	0.92	1100+	
7:58	0.375	11.9	0.95	117	6.71	0.92	322	cloudy grey color
8:03	0.500	11.8	1.02	115	6.7	0.91	133	
8:08	0.625	11.7	1.01	113	6.71	0.91	51	clear
8:13	0.750	11.8	1.02	111	6.71	0.89	24	
8:18	0.875	11.8	0.99	111	6.7	0.90	10	

GROUNDWATER SAMPLING RECORD

Sample Number	Collection Time	Parameter	Container	Preservative
TW-9	8:20	8260B - TCL Volatiles	3 - 40mL VOA	HCl
		8015C - TPH DRO	2 - 250mL amber	HCl
		8015C - TPH GRO	3 - 40mL VOA	HCl

Samples Shipped By: courier
Laboratory: TestAmerica
Sampler(s): ALH
Checked By:

Well Sampling / MicroPurge Log

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Project Name:	St. Paul's Transit Site	**Job Number:**	02218113.09
Well Number:	TW-10 (B-10)	**Date:**	1/27/2020
Well Diameter (in):	1	**Pump Used:**	Peristaltic
Depth to Pump (ft):	~11	**1 Well Volume (gal):**	0.25
Total Well Depth (ft):	12	**Purging Time Initiated:**	10:11
Depth to Water (ft):	5.63	**Purging Time Completed:**	10:45
Water Column Thickness (ft):	6.37	**Total Gallons Purged:**	0.8

WELL PURGING RECORD

Time	Volume Purged (gallons)	10% Temperature (°C)	10% D.O. (mg/L)	±10 ORP (mV)	10% pH (s.u.)	3% Specific Conductance (mS/cm)	10% or <=5 Turbidity (NTU)	Comments (water color, odor, sediment, cloudy, etc.)
10:16	SKIP							YSI instrument not turning on
10:24	0.300	14.1	1.1	108	6.61	0.88	385	cloudy grey, slight odor
10:26	0.375	14.2	0.99	108	6.61	0.88	199	
10:31	0.500	14.2	1.12	107	6.6	0.88	123	
10:36	0.675	14.5	1.11	106	6.6	0.88	38	
10:41	0.750	14.2	0.98	105	6.59	0.88	15	clear

GROUNDWATER SAMPLING RECORD

Sample Number	Collection Time	Parameter	Container	Preservative
TW-10	10:45	8260B - TCL Volatiles	3 - 40mL VOA	HCl
		8015C - TPH DRO	2 - 250mL amber	HCl
		8015C - TPH GRO	3 - 40mL VOA	HCl

Samples Shipped By: courier
Laboratory: TestAmerica
Sampler(s): ALH
Checked By:

Well Sampling / MicroPurge Log

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Project Name:	St. Paul's Transit Site	**Job Number:**	02218113.09
Well Number:	TW-11 (B-11)	**Date:**	1/27/2020
Well Diameter (in):	1	**Pump Used:**	Peristaltic
Depth to Pump (ft):	~9	**1 Well Volume (gal):**	0.18
Total Well Depth (ft):	10	**Purging Time Initiated:**	11:15
Depth to Water (ft):	5.4	**Purging Time Completed:**	11:45
Water Column Thickness (ft):	4.6	**Total Gallons Purged:**	0.9

WELL PURGING RECORD

Time	Volume Purged (gallons)	10% Temperature (°C)	10% D.O. (mg/L)	±10 ORP (mV)	10% pH (s.u.)	3% Specific Conductance (mS/cm)	10% or <=5 Turbidity (NTU)	Comments (water color, odor, sediment, cloudy, etc.)
11:20	0.125	13.9	0.41	35	6.71	0.73	1100+	muddy brown, petroleum odor
11:25	0.30	13.7	0.81	27	6.72	0.73	383	grey, strong odor
11:30	0.40	13.1	0.39	24	6.74	0.73	172	
11:35	0.60	13.4	0.4	19	6.74	0.73	137	grey tint
11:40	0.75	13.5	0.39	14	6.74	0.73	81	clear

GROUNDWATER SAMPLING RECORD

Sample Number	Collection Time	Parameter	Container	Preservative
TW-11	11:45	8260B - TCL Volatiles	3 - 40mL VOA	HCl
		8015C - TPH DRO	2 - 250mL amber	HCl
		8015C - TPH GRO	3 - 40mL VOA	HCl

Samples Shipped By: courier
Laboratory: TestAmerica
Sampler(s): ALH
Checked By:

Well Sampling / MicroPurge Log

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Project Name:	St. Paul's Transit Site	**Job Number:**	02218113.09
Well Number:	TW-12 (B-12)	**Date:**	1/27/2020
Well Diameter (in):	1	**Pump Used:**	Peristaltic
Depth to Pump (ft):	~10	**1 Well Volume (gal):**	0.18
Total Well Depth (ft):	11	**Purging Time Initiated:**	12:05
Depth to Water (ft):	6.49	**Purging Time Completed:**	12:35
Water Column Thickness (ft):	4.51	**Total Gallons Purged:**	0.8

WELL PURGING RECORD

Time	Volume Purged (gallons)	10% Temperature (°C)	10% D.O. (mg/L)	±10 ORP (mV)	10% pH (s.u.)	3% Specific Conductance (mS/cm)	10% or <=5 Turbidity (NTU)	Comments (water color, odor, sediment, cloudy, etc.)
12:10	0.125	14.4	1.02	46	6.73	0.97	825	cloudy tan, petroleum odor
12:15	0.250	13.7	0.93	49	6.64	0.95	258	tiny floating particles
12:20	0.375	13.3	0.89	49	6.62	0.94	98	clearer
12:25	0.500	13.3	0.8	49	6.59	0.92	52	
12:30	0.625	13.7	0.82	50	6.57	0.91	27	clear, floating grey particles
								*Note while sampling a woman pulled
								up in her car up wind and began smoking

GROUNDWATER SAMPLING RECORD

Sample Number	Collection Time	Parameter	Container	Preservative
TW-12	12:35	8260B - TCL Volatiles	3 - 40mL VOA	HCl
		8015C - TPH DRO	2 - 250mL amber	HCl
		8015C - TPH GRO	3 - 40mL VOA	HCl

Samples Shipped By: courier
Laboratory: TestAmerica
Sampler(s): ALH
Checked By:

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Project Name:	St. Paul's Transit Site	**Job Number:**	02218113.09
Well Number:	TW-13 (B-13)	**Date:**	1/27/2020
Well Diameter (in):	1	**Pump Used:**	Peristaltic
Depth to Pump (ft):	~11	**1 Well Volume (gal):**	0.19
Total Well Depth (ft):	12 (+2.17 stick-up)	**Purging Time Initiated:**	13:08
Depth to Water (ft):	9.52	**Purging Time Completed:**	13:33
Water Column Thickness (ft):	4.65	**Total Gallons Purged:**	0.7

WELL PURGING RECORD

Time	Volume Purged (gallons)	10% Temperature (°C)	10% D.O. (mg/L)	±10 ORP (mV)	10% pH (s.u.)	3% Specific Conductance (mS/cm)	10% or <=5 Turbidity (NTU)	Comments (water color, odor, sediment, cloudy, etc.)
13:13	0.125	13	0.56	52	6.46	0.635	1066	cloudy brown, no odor
13:18	0.250	12.3	0.41	51	6.47	0.628	830	
13:23	0.375	12.5	0.31	50	6.46	0.624	464	
13:28	0.500	12.8	0.26	50	6.46	0.620	224	

GROUNDWATER SAMPLING RECORD

Sample Number	Collection Time	Parameter	Container	Preservative
TW-13	13:33	8260B - TCL Volatiles	3 - 40mL VOA	HCl
		8015C - TPH DRO	2 - 250mL amber	HCl
		8015C - TPH GRO	3 - 40mL VOA	HCl

Samples Shipped By: courier
Laboratory: TestAmerica
Sampler(s): ALH
Checked By:

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Project Name:	St. Paul's Transit Site	**Job Number:**	02218113.09
Well Number:	TW-14 (B-14)	**Date:**	2/3/2020
Well Diameter (in):	1	**Pump Used:**	Peristaltic
Depth to Pump (ft):	~11	**1 Well Volume (gal):**	0.16
Total Well Depth (ft):	12	**Purging Time Initiated:**	8:09
Depth to Water (ft):	7.99	**Purging Time Completed:**	8:35
Water Column Thickness (ft):	4.01	**Total Gallons Purged:**	0.5

WELL PURGING RECORD

Time	Volume Purged (gallons)	10% Temperature (^{o}C)	10% D.O. (mg/L)	±10 ORP (mV)	10% pH (s.u.)	3% Specific Conductance (mS/cm)	10% or <=5 Turbidity (NTU)	Comments (water color, odor, sediment, cloudy, etc.)
8:14	0.10	14.6	0.95	85	6.64	1.00	556	cloudy tan/grey
8:19	0.20	14.5	0.67	79	6.60	0.99	309	floating black particles
8:24	0.25	14.3	0.52	74	6.60	0.99	200	
8:29	0.375	14.7	0.48	70	6.60	0.99	115	
8:34	0.475	14.9	0.43	67	6.57	0.98	59	clear, strong petroleum odor

GROUNDWATER SAMPLING RECORD

Sample Number	Collection Time	Parameter	Container	Preservative
TW-14	8:35	8260B - TCL Volatiles	3 - 40mL VOA	HCl
		8015C - TPH DRO	2 - 250mL amber	HCl
		8015C - TPH GRO	3 - 40mL VOA	HCl

Samples Shipped By: courier
Laboratory: TestAmerica
Sampler(s): ALH
Checked By:

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Project Name:	St. Paul's Transit Site	**Job Number:**	02218113.09
Well Number:	TW-15 (B-15)	**Date:**	2/3/2020
Well Diameter (in):	1	**Pump Used:**	Peristaltic
Depth to Pump (ft):	~11	**1 Well Volume (gal):**	0.24
Total Well Depth (ft):	12	**Purging Time Initiated:**	10:29
Depth to Water (ft):	6.02	**Purging Time Completed:**	11:05
Water Column Thickness (ft):	5.98	**Total Gallons Purged:**	0.8

WELL PURGING RECORD

Time	Volume Purged (gallons)	10% Temperature (°C)	10% D.O. (mg/L)	±10 ORP (mV)	10% pH (s.u.)	3% Specific Conductance (mS/cm)	10% or <=5 Turbidity (NTU)	Comments (water color, odor, sediment, cloudy, etc.)
10:34	0.10	18.2	0.78	-2	6.56	1.28	635	muddy black/brown
10:39	0.125	18.3	0.36	-13	6.56	1.30	800	strong petroleum odor
10:44	0.25	18.3	0.33	-18	6.56	1.34	854	*emptied YSI
10:49	0.375	18.2	0.28	-27	6.55	1.43	316	
10:54	0.50	18.4	0.27	-32	6.54	1.45	152	
10:59	0.625	18.4	0.26	-37	6.54	1.46	76	
11:04	0.75	18.5	0.22	-41	6.54	1.47	45	clear, floating black particles

GROUNDWATER SAMPLING RECORD

Sample Number	Collection Time	Parameter	Container	Preservative
TW-15	11:05	8260B - TCL Volatiles	3 - 40mL VOA	HCl
		8015C - TPH DRO	2 - 250mL amber	HCl
		8015C - TPH GRO	3 - 40mL VOA	HCl

Samples Shipped By: courier
Laboratory: TestAmerica
Sampler(s): ALH
Checked By:

Well Sampling / MicroPurge Log

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Project Name:	St. Paul's Transit Site	**Job Number:**	02218113.09
Well Number:	TW-16 (B-16)	**Date:**	2/3/2020
Well Diameter (in):	1	**Pump Used:**	Peristaltic
Depth to Pump (ft):	~9	**1 Well Volume (gal):**	0.18
Total Well Depth (ft):	10	**Purging Time Initiated:**	9:19
Depth to Water (ft):	5.49	**Purging Time Completed:**	9:52
Water Column Thickness (ft):	4.51	**Total Gallons Purged:**	0.8

WELL PURGING RECORD

Time	Volume Purged (gallons)	10% Temperature (°C)	10% D.O. (mg/L)	±10 ORP (mV)	10% pH (s.u.)	3% Specific Conductance (mS/cm)	10% or <=5 Turbidity (NTU)	Comments (water color, odor, sediment, cloudy, etc.)
9:24	0.125	15.7	1.32	52	6.56	0.370	1100+	muddy brown
9:29	0.250	15.7	1.26	50	6.62	0.438	708	grey tint, no odor
9:34	0.375	15.6	0.58	44	6.63	0.482	297	
9:39	0.500	15.7	0.39	41	6.71	0.489	170	
9:44	0.625	16	0.34	37	6.74	0.495	94	
9:49	0.750	16.2	0.3	35	6.75	0.503	60	clear

GROUNDWATER SAMPLING RECORD

Sample Number	Collection Time	Parameter	Container	Preservative
TW-16	9:52	8260B - TCL Volatiles	3 - 40mL VOA	HCl
		8015C - TPH DRO	2 - 250mL amber	HCl
		8015C - TPH GRO	3 - 40mL VOA	HCl

Samples Shipped By: courier
Laboratory: TestAmerica
Sampler(s): ALH
Checked By:

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Project Name:	St. Paul's Transit Site	**Job Number:**	02218113.09
Well Number:	TW-17 (B-17)	**Date:**	3/10/2020
Well Diameter (in):	1	**Pump Used:**	Peristaltic
Depth to Pump (ft):	~11	**1 Well Volume (gal):**	0.30
Total Well Depth (ft):	12	**Purging Time Initiated:**	17:00
Depth to Water (ft):	4.5	**Purging Time Completed:**	17:20
Water Column Thickness (ft):	7.5	**Total Gallons Purged:**	1.0

WELL PURGING RECORD

Time	Volume Purged (gallons)	10% Temperature (°C)	10% D.O. (mg/L)	±10 ORP (mV)	10% pH (s.u.)	3% Specific Conductance (mS/cm)	10% or <=5 Turbidity (NTU)	Comments (water color, odor, sediment, cloudy, etc.)
17:00	0.000	17.5	2.74	-49.7	6.95	0.720	167.6	cloudy
17:05	0.250	17.4	2.64	-49	6.95	0.720	611.3	cloudy
17:10	0.500	17.4	2.72	-47.1	6.95	0.710	1079	cloudy
17:15	0.750	17.3	2.49	-39.5	6.88	0.710	552.6	cloudy
17:20	1.000	17.3	2.38	-32.2	6.87	0.710	538.6	cloudy

GROUNDWATER SAMPLING RECORD

Sample Number	Collection Time	Parameter	Container	Preservative
TW-17	17:30	8260B - TCL Volatiles	3 - 40mL VOA	HCl
		8015C - TPH DRO	2 - 250mL amber	HCl
		8015C - TPH GRO	3 - 40mL VOA	HCl

Samples Shipped By: courier
Laboratory: TestAmerica
Sampler(s): Austin Drooger
Checked By: