Beggs, Tauren R - DNR

From: Cull, Whitney <Whitney.Cull@stantec.com>
Sent: Thursday, April 4, 2024 2:40 PM
To: Beggs, Tauren R - DNR
Cc: Byers, Harris
Subject: 02-36-585491 Rapids Road Right of Way Soil Characterization - For Import to River Point (Chicago Street ROW)
Attachments: 20240403 Soil Characterization - Rapids Road ROW_red.pdf

Good afternoon Tauren,

Thank you for taking the time to talk with me on Tuesday regarding the soil characterization results from the Rapids Road Right of Way. Attached is a letter summarizing the sampling results from the characterization work of approximately 10,000 cubic yards of material (generated generally in the top 1.5 feet) that will be used to raise the grade specifically within the Chicago Street Right of Way at the River Point District.

As outlined in the report, the material (topsoil, clay, and gravelly sands) cut along the side of Rapids Road as part of street reconstruction will be transported in a manner where the cPAH-impacted soils will be placed first/on the bottom, surveyed, then capped by the non-cPAH impacted soils (and ultimately, by paved ROW infrastructure once soil settling and paving is completed). Materials placed in this way are planned for “live load” from the generating site, directly to their final placement within Chicago Street. PAH concentrations within this imported material are the same as, or ”cleaner” than, existing River Point anthropogenic fill soils, and are an excellent way to beneficially reuse this material for a site that is in great need of net fill for grade raise.

The contractor is looking to start this soil movement the week of 4/8 Monday. **Would you be able to provide general concurrence that this material, provided it is handled in the way described herein, is suitable for use within the River Point Chicago Street ROW?** We are additionally preparing a Remedial Action Plan/Materials Management Plan for the Chicago Street ROW with some additional details and code citations, which we will send your way as soon as we can.

Thank you!

Whitney Cull
Geological Engineer in Training
Mobile: (262) 219 - 4740

Stantec
We’ve moved, but just across the street! Please note our new address, effective 5/23/2022:
Stantec
12080 Corporate Parkway Suite 200
Mequon WI 53092-2649

Stantec Consulting Services Inc.
12080 Corporate Parkway, Suite 200 Mequon WI 53092

April 3, 2024
File: 193710442

Attention: Mr. John Streu
Vinton Construction Co.
jstreu@vintonwis.com

Dear Mr. Streu,

Reference: Characterization of Soil in Rapids Road (Waldo Boulevard to Menasha Road) Right of Way; Manitowoc, Wisconsin

Stantec Consulting Services Inc. (Stantec) has prepared this letter report following collection and laboratory analysis of soil samples collected along the Rapids Road/County Road R right of way (ROW) between Waldo Boulevard and Menasha Road in Manitowoc, Wisconsin. The purpose of this sampling was to characterize representative soil targeted for use as potential fill within the Chicago Street ROW at the River Point District (outlined in blue on **Figure 1**). The location of the Rapids Road ROW project area is illustrated on **Figures 2** and **3**.

BACKGROUND

Vinton Construction Company (Vinton) is reconstructing a portion of Rapids Road from approximately Waldo Boulevard to Menasha Road. The project is expected to generate approximately 10,000 cubic yards in materials that Vinton has offered to the City of Manitowoc for construction of the Chicago Street ROW at the River Point District. The River Point District is undergoing investigation under chapter NR 700 of the Wisconsin Administrative Code (WAC); at the recommendation of the Wisconsin Department of Natural Resources (WDNR), sampling of representative soil prior to placement on the River Point District Property was warranted.

METHODS

On March 12, 2024, Stantec met Vinton onsite and collected 20 discrete soil samples for characterization as potential fill for the River Point District property. Soil samples were collected via 4.25-inch hollow-stem augers along the eastern boundary/shoulder of the Rapids Road ROW and were extended to a maximum depth of 2.5 feet below ground surface (ft bgs), the maximum proposed cut depth for the project. Sample locations are illustrated on **Figure 3**, and qualitative observations of soils encountered are illustrated on **Table 1**. A photographic log depicting subsurface lithology is provided in **Attachment A**.

Stantec field personnel screened each soil sample using a portable photoionization detector (PID) calibrated to 100 parts per million isobutylene standard to screen the soil samples for volatile organic compounds (VOCs). Soil was sampled from representative soil units to a maximum depth of 2.5 ft bgs and submitted to Eurofins TestAmerica (Chicago, Illinois) under chain-of-custody procedures for analysis of Resource Conservation and Recovery Act (RCRA) metals, polycyclic aromatic hydrocarbons (PAHs), and VOCs. Laboratory analytical results are provided in **Attachment B** and detected constituents are compared to ch. NR 720 WAC health-based residual contaminant levels (RCLs) and background threshold values (BTVs) on **Table 2**.

RESULTS

The existing soils along the Rapids Road ROW shoulder consisted largely of rooted topsoil underlain by well-graded sands and gravels, with some areas of high plasticity clay (**Table 1**). The encountered soil horizons appear to be reworked native soil similar to soils encountered in other ROWs in the City of Manitowoc. All PID measurements were below three instrument units; no waste materials, odors or evidence of staining was observed in any sample.

VOCs. As summarized on **Table 2**, the concentrations of benzene and chloroform were greater than the soil to groundwater RCL. However, these detections are not considered representative as the values are all qualified with a "J" flag suggesting the detection is an approximated value. Chloroform was additionally detected in the trip blank that accompanied the samples to the lab, suggesting the apparent detections in soil are a laboratory artifact.

No other VOC constituents were detected in any samples collected along the Rapids Road ROW. As such, VOCs do not appear to limit the potential to reuse this material as fill in the Chiago Street ROW at the River Point District

RCRA Metals. With the exception of lead (discussed below), the concentrations of all metals in soil were less than applicable health based RCLs and/or BTVs.

The concentrations of lead in several sample locations were greater than the soil to groundwater RCL but did not exceed direct contact RCLs. Lead is documented as being present in soils currently present at the River Point District at or above these concentrations. As such, RCRA metals do not appear to limit the potential to reuse the Rapids Road ROW soils material as fill in the Chicago Street ROW at the River Point District

PAHs. Several PAH constituents were detected at concentrations greater than the non-industrial direct contact RCL and/or groundwater protection RCL. To assess the cumulative impact of these PAH detections, particularly for carcinogenic PAHs (cPAHs), a risk assessment using the WDNR cPAH calculator was completed. cPAH calculations are provided in **Attachment C**, illustrated on **Table 2**, and summarized below:

- **cPAH below cumulative risk threshold**. Twelve sample locations (TP-2 through TP-7, TP-9, TP-11 through TP-14, and TP-20) were below the cumulative cPAH cancer risk threshold. Therefore, while individual PAH constituents were present at concentrations greater than non-industrial direct contact standards at these locations, PAHs from these sample locations do not pose a cumulative direct-contact risk and do not limit the potential as fill material in the Chicago Street ROW.

- **cPAH above cumulative risk threshold.** Eight sample locations (TP-1, TP-8, TP-10, and TP-15 through TP-19) were determined to have cPAH concentrations greater than the cumulative cPAH risk threshold. PAHs are present in soils at the River Point District at or above these concentrations. Therefore, soils from these sample locations are suitable for use in the Chicago Street ROW, provided that they are capped with materials not exceeding direct contact RCLs.

CONCLUSIONS

The approximate 10,000 total cubic yards to be generated as part of the Rapids Road ROW reconstruction are suitable for use as fill material in the Chicago Street ROW within the boundary illustrated on **Figure 1**, provided that they are placed and managed in the following manner:

- **cPAH impacted soil.** Soils with PAH concentrations greater than cPAH cumulative risk thresholds (approximately 5,000 cubic yards) are considered to exceed direct contact RCLs and must therefore be capped with material not exceeding direct contact RCLs. To accomplish this, cPAH impacted soils are to be placed first (i.e., at the bottom) while filling at the Chicago Street ROW. Following placement, the top of the cPAH impacted soil surface shall be surveyed prior to placement of additional fill for construction documentation.
- **Non-cPAH impacted soil.** Soils with PAH concentrations less than cPAH cumulative risk thresholds (approximately 5,000 cubic yards) are considered to be below direct contact RCLs. This soil will be placed on top of the cPAH impacted soils to act as an interim direct contact cap prior to final engineered barrier (i.e., paving) and finishing of the Chicago Street ROW.

The following is a summary of the material generated from the Rapids Road ROW to be considered “cPAH impacted” and “non-cPAH impacted”, for use in construction sequencing and materials management:

Sample ID	Material Type	Station Start	Station End
TP-1	cPAH impacted	100+00	106+00
TP-2 through TP-7	Non-cPAH impacted	106+00	126+00
TP-8 through TP-10	cPAH impacted	126+00	141+00
TP-11 through TP-14	Non-cPAH impacted	141+00	154+00
TP-15 through TP-20	cPAH impacted	154+00	177+00

Additionally, if soils with apparent impacts (unusual odor, color, staining, or evidence of waste materials) not observed during the Stantec March 2024 soil characterization sampling are encountered during the Rapids Road ROW work, it shall not be placed at the River Point District and should instead be managed for landfill disposal.

Stantec recommends submitting this letter to WDNR for concurrence with our conclusions prior to placement of excavation spoil from the Rapids Road ROW within the Chicago Street ROW at the River Point District.

Reference: Characterization of Soil in Rapids Road (Waldo Boulevard to Menasha Road) Right of Way; Manitowoc, Wisconsin

Regards,

Stantec Consulting Services, Inc.

Whitney Cull, EIT
Project Manager
whitney.cull@stantec.com

Stu Gross, P.G.,
BC1937 Practice Lead/Senior Project Manager
stu.gross@stantec.com

Enclosures
Figures
Tables
Attachments:
- Attachment A: Photographic Log
- Attachment B: Laboratory Report
- Attachment C: cPAH Calculations

LIMITATIONS

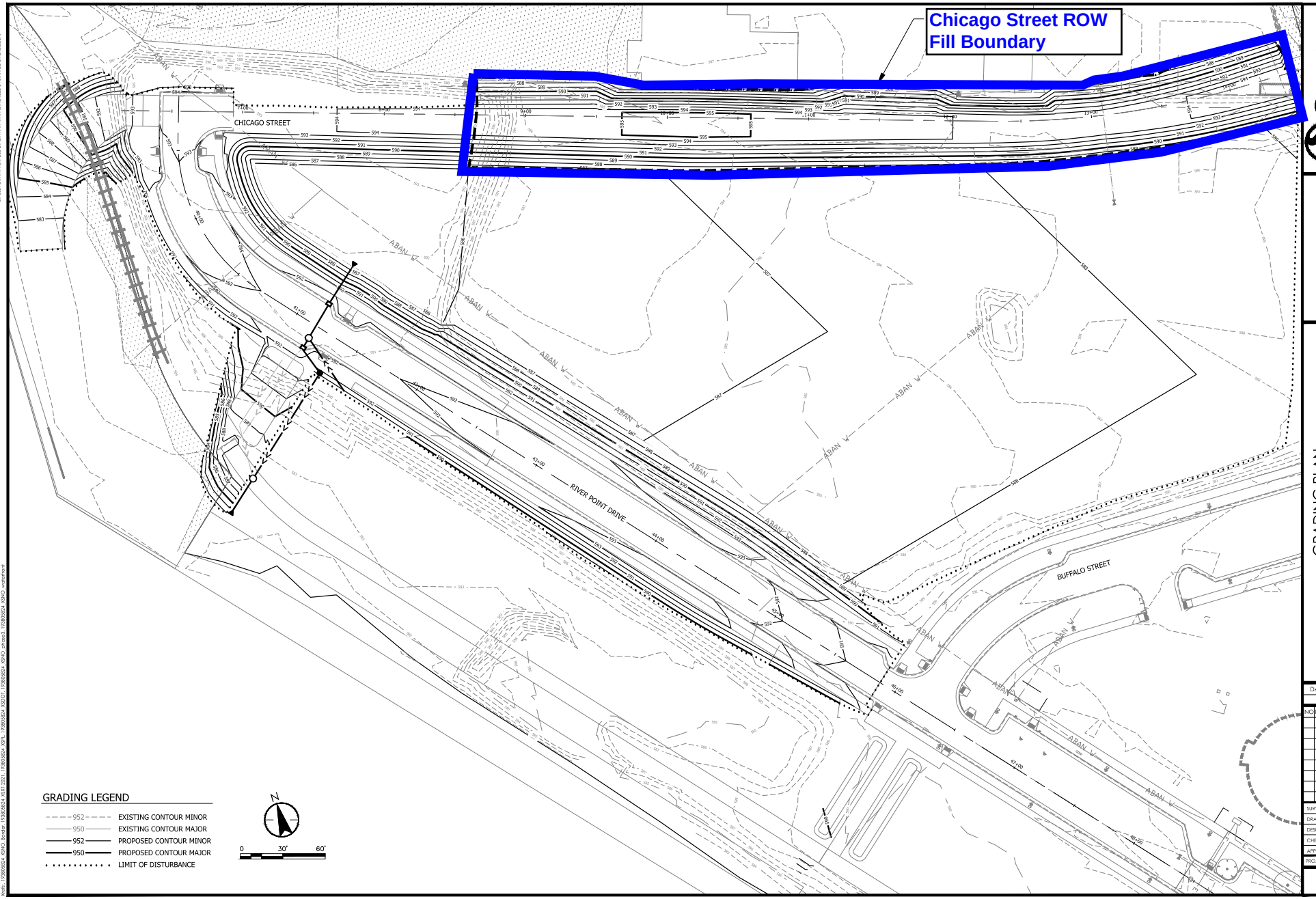
The conclusions in this letter are Stantec's professional opinion, as of the time of the letter, and concerning the scope described in the letter. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. This letter relates solely to the specific project for which Stantec was retained and the stated purpose for which the letter was prepared. This letter is not to be used or relied on for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient's own risk.

Stantec has assumed all information received from third parties in the preparation of this letter to be correct. While Stantec has exercised a customary level of judgment or due diligence in the use of such information, Stantec assumes no responsibility for the consequences of any error or omission contained therein.

This letter is intended solely for use by Vinton in accordance with Stantec's contract with Vinton. While this letter may be provided to applicable authorities having jurisdiction and others for whom Vinton is responsible, Stantec does not warrant the services to any third party. This letter may not be relied upon by any other party without the express written consent of Stantec, which may be withheld at Stantec's discretion.

FIGURES

Figure 1 - Chicago Street Right of Way (ROW), River Point District



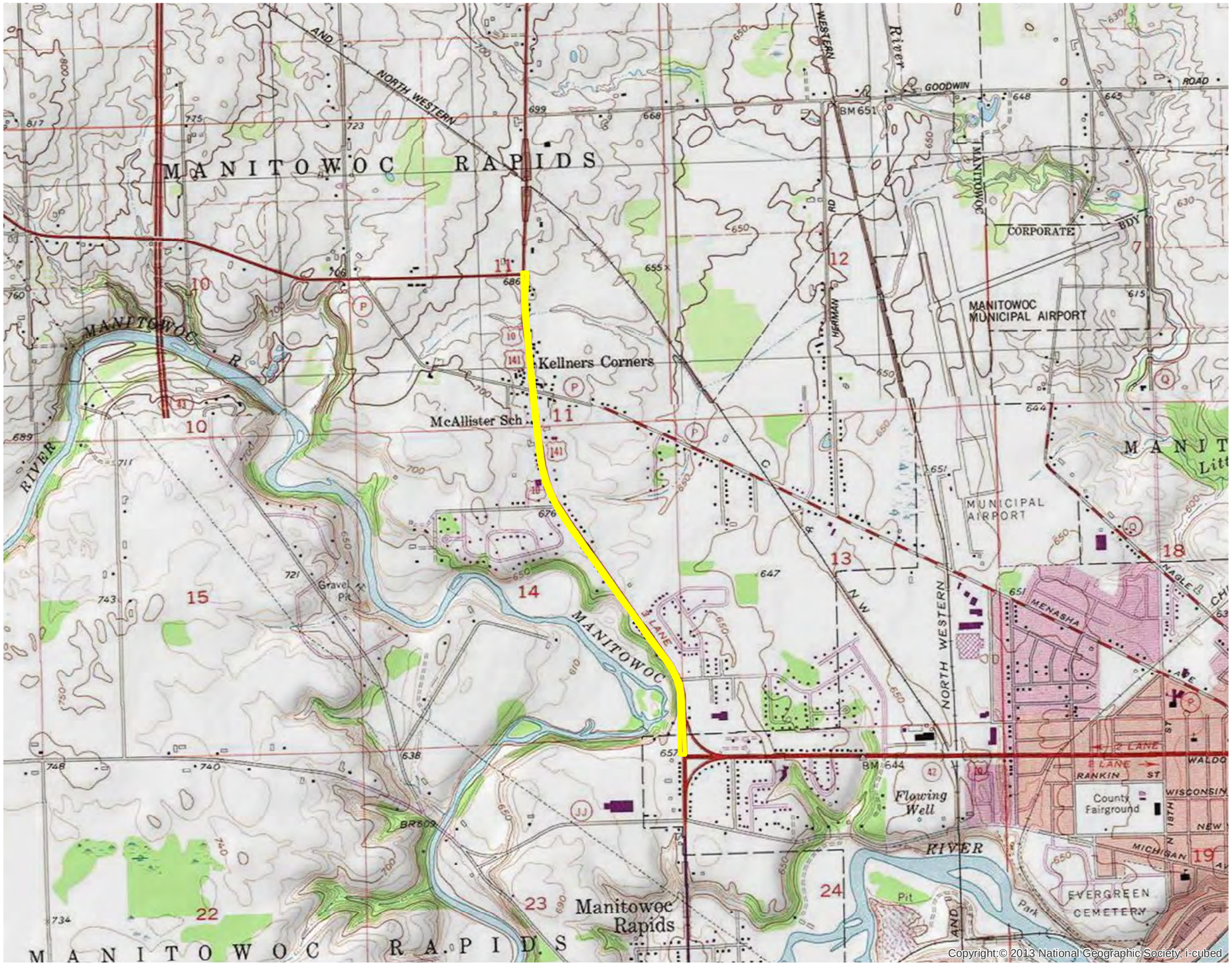


Figure No.
2

Title

Project Area Relative to Local Topography

Client/Project

RIver Point Fill Characterization
North Rapids Road
City of Manitowoc

0 1,200 2,400 Feet

Prepared by JLH on 2/1/2024

N

Legend

North Rapids Road Project Area

Notes

1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet

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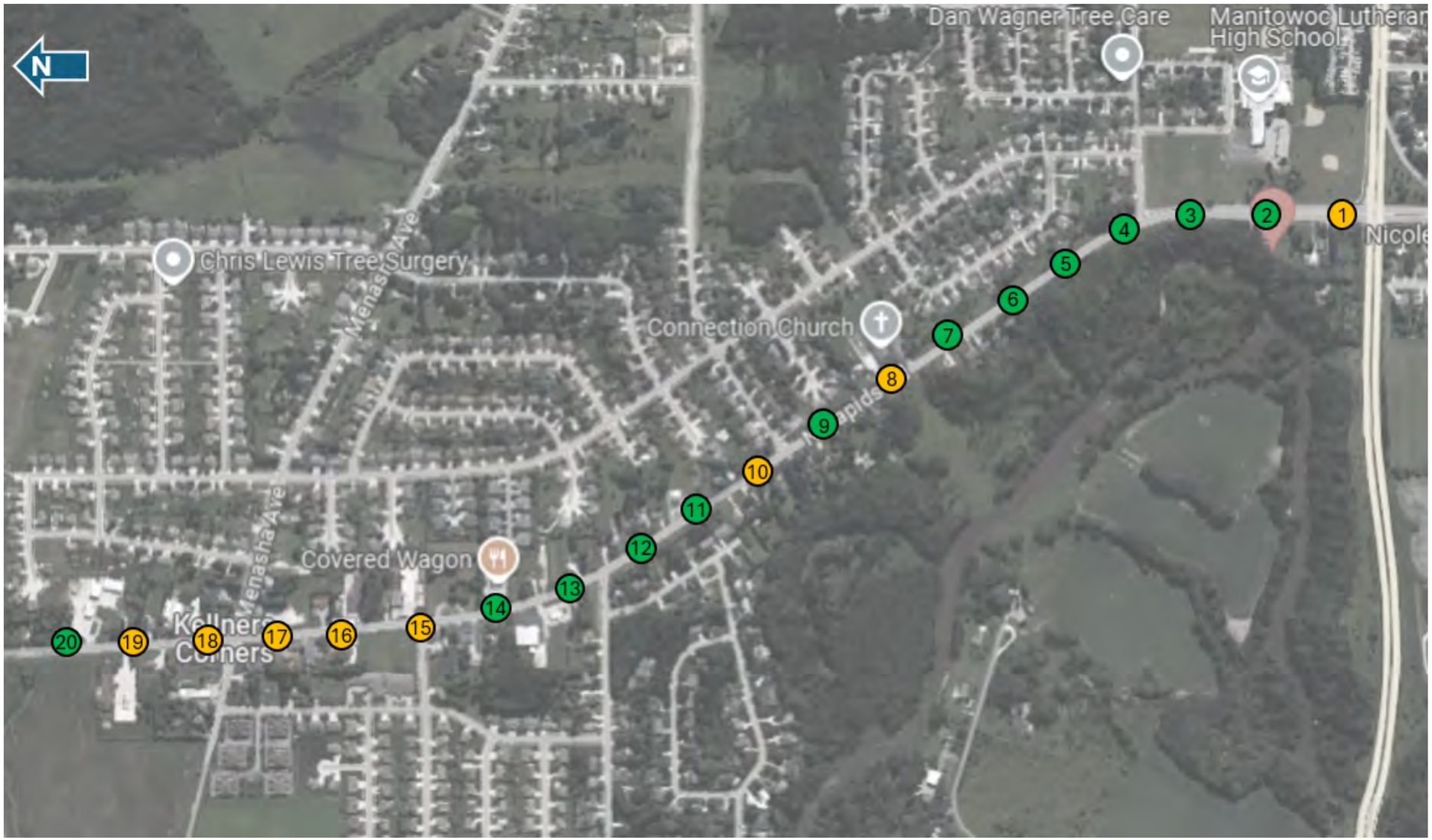

Figure No.
3

Title
Rapids Road Sample Locations

Client/Project
RIver Point Fill Characterization
North Rapids Road
City of Manitowoc

0 1,200 2,400 Feet

Prepared by JLH on 2/1/2024

Legend

- cPAH-impacted sample location
- Non-cPAH impacted sample location

cPAH = carcinogenic polycyclic aromatic hydrocarbon

Notes

1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet

Stantec

TABLES

Table 1 - Qualitative Soil Observations
County Road R/Rapids Road Fill Characterization
Manitowoc, Wisconsin

ID	Station	Depth (ft bgs)	PID	Odor	Soil Description
TP-1	102+00	0-2.5	0.3	None	Topsoil and CH, dark brown
TP-2	106+00	0-2	0.2	None	SWG (~60% gravel), light brown/beige
TP-3	110+00	0-2.5	0.4	None	CH w/gravels (~15%), brown
TP-4	114+00	0-1.5	0.5	None	SWG (~30% gravel), brown
TP-5	118+00	0-2	0.5	None	Clayey SWG (~45% gravel), dark brown
TP-6	122+00	0-1.5	0.8	None	Clayey SWG (~30% gravel), trace fill, dark brown
TP-7	126+00	0-1.5	0.9	None	SWG (~45% gravel), beige/brown
TP-8	130+00	0-1.5	1.2	None	Clayey SWG (~40% gravel), dark brown
TP-9	134+00	0-1.5	1.4	None	Clayey SWG (~30% gravel), brown
TP-10	138+00	0-1.5	1.0	None	SWG (~30% gravel), brown
TP-11	141+00	0-1	1.2	None	Topsoil and CH, brown
TP-12	146+00	0-1	1.0	None	Topsoil and CH, dark brown
TP-13	150+00	0-1	1.9	None	Clayey SWG (~15% gravel), dark brown/beige
TP-14	154+00	0-1	0.3	None	SWG (~50% gravel), beige
TP-15	158+00	0-1	0.9	None	SWG (~50% gravel), brown/beige
TP-16	163+00	0-1	0.9	None	Topsoil and SWG (~30% gravel), dark brown/beige
TP-17	166+25	0-1.5	1.0	None	Topsoil and SWG (~30% gravel), brown/beige
TP-18	170+00	0-1.5	0.6	None	Topsoil and SWG (~40% gravel), dark brown/beige
TP-19	174+00	0-1	2.8	None	Topsoil, dark brown
TP-20	177+50	0-1	0.9	None	Topsoil and SWG (~40% gravel), dark brown/beige

Notes:

ft bgs	Feet below ground surface
PID	Photoionization detector reading
CH	Clay, high plasticity
SWG	Well-graded gravelly sand

Table 2 - Detected Constituents in Soil
County Road R/Rapids Road Fill Characterization
Manitowoc, Wisconsin

Analyte	Industrial Direct Contact RCL	Non-Industrial Direct Contact RCL	Soil to Groundwater RCL	Wisconsin BTV	Laboratory ID; Sample ID, Station and Depth; Sample Date						
					500-247366-1	500-247366-2	500-247366-3	500-247366-4	500-247366-5	500-247366-6	500-247366-7
					TP-1 STA 102+00 0-2'	TP-2 STA 106+00 0-2'	TP-3 STA 110+00 0-2.5'	TP-4 STA 114+00 0-1.5'	TP-5 STA 118+00 0-2'	TP-6 STA 122+00 0-1.5'	TP-7 STA 126+00 0-1.5'
					03/12/2024	03/12/2024	03/12/2024	03/12/2024	03/12/2024	03/12/2024	03/12/2024
Detected Volatile Organic Compounds (µg/kg)											
Benzene	7,070	1,600	5.1	n/v	<10	<8.0	**9.9 J**	<9.2	<8.9	<9.5	<9.4
Chloroform	1,980	454	3.3	n/v	**39 J *+**	**28 J *+**	**29 J *+**	**27 J *+**	**35 J *+**	**48 J *+**	**26 J *+**
Detected Polycyclic Aromatic Hydrocarbons (µg/kg)											
Acenaphthene	45,200,000	3,590,000	n/v	n/v	80	<7.0 F1	<15	<7.5	<15	<15	<7.3
Acenaphthylene	n/v	n/v	n/v	n/v	<13	<5.8 F1	<13	<6.3	<13	<13	<6.1
Anthracene	100,000,000	17,900,000	196,949	n/v	340	9.1 J F1	<15	<7.6	62 J	53 J	9.3 J
Benzo[a]anthracene^	20,800	1,140	n/v	n/v	720	26 J	46 J	30 J	180	180	44
Benzo[a]pyrene^	2,110	115	470	n/v	**700**	50	100	55	**230**	**230**	73
Benzo[b]fluoranthene^	21,100	1,150	478	n/v	**990**	<33	<72	35 J	270	220	62
Benzo[g,h,i]perylene	n/v	n/v	n/v	n/v	520	41 F1	96	51	200	190	66
Benzo[k]fluoranthene^	211,000	11,500	n/v	n/v	320	<13	<29	<14	92	90	21 J
Chrysene^	2,110,000	115,000	144	n/v	**860**	21 J	29 J	26 J	**220**	**180**	48
Dibenz(a,h)anthracene^	2,110	115	n/v	n/v	**150**	<34	<75	<37	<73	<74	<36
Fluoranthene	30,100,000	2,390,000	88,877	n/v	2,100	59	57 J	48	460	420	97
Fluorene	30,100,000	2,390,000	14,829	n/v	83	<10 F1	<22	<11	<22	<22	<11
Indeno[1,2,3-cd]pyrene^	21,100	1,150	n/v	n/v	680	<33	<73	37	210	200	57
Naphthalene	24,100	5,520	658	n/v	<14	<6.2 F1	<14	<6.7	<13	<14	<6.5
Phenanthrene	n/v	n/v	n/v	n/v	1,200	34	24 J	19 J	210	220	37
Pyrene	22,600,000	1,790,000	54,545	n/v	1,600	49	46 J	44	380	350	78
cPAH Cancer Risk (Cumulative)	n/v	n/v	n/v	n/v	**9.5E-06**	8.1E-07	1.7E-06	8.9E-07	3.2E-06	3.2E-06	1.1E-06
Detected Resource Conservation and Recovery Act Metals (mg/kg)											
Arsenic	**8.3*** [3]	**8.3*** [0.677]	**8.3*** [0.584]	8.3	3.0	0.47 J	2.6	2.6	1.7	3.0	2.0
Barium	100,000	15,300	**364*** [164.8]	364	74 B	14 B	65 B	53 B	39 B	72 B	31 B
Cadmium	985	71	**1*** [0.752]	1	0.23 B	0.35 B	0.29 B	0.17 J B	0.18 J B	0.33 B	0.12 J B
Chromium	n/v	n/v	360,000	44	23	3.2	22	19	13	22	14
Lead	800	400	**51.6*** [27]	51.6	41 F1 F2	0.69	18	**54**	**120**	**55**	19
Mercury	3.13	3.13	0.208	n/v	0.034	<0.0082	0.029	0.011 J	<0.0088	0.025	<0.0094

Notes:

µg/kg	Micrograms per kilogram
mg/kg	Milligrams per kilogram
BTV	Background threshold value
cPAH	Cumulative Polycyclic Aromatic Hydrocarbons
NR 720	ch. NR 720 Wisconsin Administrative Code
RCL	Residual contaminant level
	Constituent exceeds the ch. NR 720 soil to groundwater RCL
	Constituent exceeds the ch. NR 720 non-industrial direct contact RCL
	Exceeds Cumulative cPAH Risk Threshold (>5.0E-06)
^	Carcinogenic Polycyclic Aromatic Hydrocarbon (cPAH)
<	Analyte not detected at a concentration greater than the laboratory reporting limit.
*+	Laboratory control sample/duplicate is outside acceptance limits, high biased.
B	Compound was found in the laboratory method blank and sample.
J	Reported concentration is an approximate value.
F1	Matrix spike/duplicate recovery exceeds control limits.
F2	Matrix spike/duplicate relative percent difference exceeds control limits.
XX* [XXX]	Standard in bold is the SBTV being used for the purpose of evaluation under ch. NR700 WAC. The established WAC RCL is noted in brackets.

Table 2 - Detected Constituents in Soil
County Road R/Rapids Road Fill Characterization
Manitowoc, Wisconsin

Analyte	Industrial Direct Contact RCL	Non-Industrial Direct Contact RCL	Soil to Groundwater RCL	Wisconsin BTV	Laboratory ID; Sample ID, Station and Depth; Sample Date						
					500-247366-8	500-247366-9	500-247366-10	500-247366-11	500-247366-12	500-247366-13	500-247366-14
					TP-8 STA 130+00 0-1.5'	TP-9 STA 134+00 0-1.5'	TP-10 STA 138+00 0-1.5'	TP-11 STA 141+00 0-1'	TP-12 STA 146+00 0-1'	TP-13 STA 150+00 0-1'	TP-14 STA 154+00 0-1'
					03/12/2024	03/12/2024	03/12/2024	03/12/2024	03/12/2024	03/12/2024	03/12/2024
Detected Volatile Organic Compounds (µg/kg)											
Benzene	7,070	1,600	5.1	n/v	<9.5	<8.7	<9.5	<10	<9.8	<9.8	<9.7
Chloroform	1,980	454	3.3	n/v	<24 *+	**26 J *+**	<24	<25	**29 J**	<25	<25
Detected Polycyclic Aromatic Hydrocarbons (µg/kg)											
Acenaphthene	45,200,000	3,590,000	n/v	n/v	44 J	<7.2	32 J	<7.9	<7.7	<7.9	<15
Acenaphthylene	n/v	n/v	n/v	n/v	15 J	<6.0	<13	<6.6	<6.4	<6.6	<13
Anthracene	100,000,000	17,900,000	196,949	n/v	120	19 J	130	<8.0	<7.8	<7.9	20 J
Benzo[a]anthracene^	20,800	1,140	n/v	n/v	750	110	330	41	60	58	140
Benzo[a]pyrene^	2,110	115	470	n/v	**1,000**	**140**	**380**	77	110	100	**240**
Benzo[b]fluoranthene^	21,100	1,150	478	n/v	**1,500**	180	**510**	76	150	120	280
Benzo[g,h,i]perylene	n/v	n/v	n/v	n/v	930	110	350	68	120	97	260
Benzo[k]fluoranthene^	211,000	11,500	n/v	n/v	660	66	170	23 J	49	47	93
Chrysene^	2,110,000	115,000	144	n/v	**1,200**	130	**410**	51	96	72	**170**
Dibenz(a,h)anthracene^	2,110	115	n/v	n/v	**230**	41	92	<39	<38	<39	<74
Fluoranthene	30,100,000	2,390,000	88,877	n/v	2,400	240	910	110	150	110	320
Fluorene	30,100,000	2,390,000	14,829	n/v	48 J	<10	33 J	<12	<11	<11	<22
Indeno[1,2,3-cd]pyrene^	21,100	1,150	n/v	n/v	**1,200**	130	370	53	120	95	270
Naphthalene	24,100	5,520	658	n/v	<13	<6.4	<13	<7.0	<6.9	<7.0	<13
Phenanthrene	n/v	n/v	n/v	n/v	1,000	97	490	49	49	31 J	110
Pyrene	22,600,000	1,790,000	54,545	n/v	1,900	210	760	92	130	100	270
cPAH Cancer Risk (Cumulative)	n/v	n/v	n/v	n/v	**1.4E-05**	1.9E-06	**5.2E-06**	1.2E-06	1.6E-06	1.5E-06	3.3E-06
Detected Resource Conservation and Recovery Act Metals (mg/kg)											
Arsenic	**8.3*** [3]	**8.3*** [0.677]	**8.3*** [0.584]	8.3	1.4	1.1	1.9	2.9	1.5	2.3	2.2
Barium	100,000	15,300	**364*** [164.8]	364	24 B	24 B	36 B	68 B	30 B	40 B	35 B
Cadmium	985	71	**1*** [0.752]	1	0.21 B	0.20 J B	0.22 J B	0.053 J B	0.20 J B	0.18 J B	0.16 J B
Chromium	n/v	n/v	360,000	44	13	9.0	12	20	13	14	15
Lead	800	400	**51.6*** [27]	51.6	14	35	49	**58**	8.8	14	7.6
Mercury	3.13	3.13	0.208	n/v	<0.0097	0.014 J	0.020	0.022	0.016 J	0.025	<0.0096

Notes:

µg/kg	Micrograms per kilogram
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BTV	Background threshold value
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Analyte	Industrial Direct Contact RCL	Non-Industrial Direct Contact RCL	Soil to Groundwater RCL	Wisconsin BTV	Laboratory ID; Sample ID, Station and Depth; Sample Date							
					500-247366-15	500-247366-16	500-247366-17	500-247366-18	500-247366-19	500-247366-20	500-247366-21	500-247366-22
					TP-15 STA 158+00 0-1'	TP-16 STA 163+00 0-1'	TP-17 STA 166+25 0-1.5'	TP-18 STA 170+00 0-1'	TP-19 STA 174+00 0-1'	DUP-1	TP-20 STA 177+50 0-1'	TRIP BLANK
					03/12/2024	03/12/2024	03/12/2024	03/12/2024	03/12/2024	03/12/2024	03/12/2024	03/12/2024
Detected Volatile Organic Compounds (µg/kg)												
Benzene	7,070	1,600	5.1	n/v	<9.0	<10	<9.1	<10	<10	<9.6	<9.1	<7.3
Chloroform	1,980	454	3.3	n/v	**31 J**	**32 J**	<23	<26	<25	<24	<23	**30 J**
Detected Polycyclic Aromatic Hydrocarbons (µg/kg)												
Acenaphthene	45,200,000	3,590,000	n/v	n/v	<15	<16	29 J	<16	17 J	-	<15	-
Acenaphthylene	n/v	n/v	n/v	n/v	<12	<13	15 J	<13	<13	-	<13	-
Anthracene	100,000,000	17,900,000	196,949	n/v	32 J	46 J	130	35 J	53 J	-	64 J	-
Benzo[a]anthracene^	20,800	1,140	n/v	n/v	280	460	560	250	340	-	200	-
Benzo[a]pyrene^	2,110	115	470	n/v	**440**	**650**	**710**	**380**	**460**	-	**250**	-
Benzo[b]fluoranthene^	21,100	1,150	478	n/v	**660**	**1,000**	**1,100**	**520**	**710**	-	300	-
Benzo[g,h,i]perylene	n/v	n/v	n/v	n/v	480	620	680	410	460	-	250	-
Benzo[k]fluoranthene^	211,000	11,500	n/v	n/v	270	340	380	160	240	-	96	-
Chrysene^	2,110,000	115,000	144	n/v	**470**	**680**	**780**	**340**	**470**	-	**230**	-
Dibenz(a,h)anthracene^	2,110	115	n/v	n/v	**120**	**150**	**180**	110	110	-	<74	-
Fluoranthene	30,100,000	2,390,000	88,877	n/v	750	1,300	1,400	600	910	-	480	-
Fluorene	30,100,000	2,390,000	14,829	n/v	<21	<23	32 J	<23	23 J	-	<22	-
Indeno[1,2,3-cd]pyrene^	21,100	1,150	n/v	n/v	560	760	870	420	550	-	270	-
Naphthalene	24,100	5,520	658	n/v	<13	14 J	<13	<14	14 J	-	<13	-
Phenanthrene	n/v	n/v	n/v	n/v	200	350	540	230	420	-	230	-
Pyrene	22,600,000	1,790,000	54,545	n/v	590	1,100	1,100	510	780	-	390	-
cPAH Cancer Risk (Cumulative)	n/v	n/v	n/v	n/v	**6.2E-06**	**8.9E-06**	**1.0E-05**	**5.3E-06**	**6.4E-06**	-	3.5E-06	-
Detected Resource Conservation and Recovery Act Metals (mg/kg)												
Arsenic	**8.3*** [3]	**8.3*** [0.677]	**8.3*** [0.584]	8.3	1.5	2.4	2.0	1.2	1.6	-	1.4	-
Barium	100,000	15,300	**364*** [164.8]	364	27 B	47 B	30 B	32 B	32 B	-	25 B	-
Cadmium	985	71	**1*** [0.752]	1	0.18 J B	0.19 J B	0.31 B	0.17 J B	0.22 B	-	0.27 B	-
Chromium	n/v	n/v	360,000	44	12	15	12	23	19	-	11	-
Lead	800	400	**51.6*** [27]	51.6	8.1	14	**89**	11	14	-	44	-
Mercury	3.13	3.13	0.208	n/v	<0.0091	0.017 J	0.013 J	0.014 J	<0.0098	-	<0.0094	-

Notes:

µg/kg	Micrograms per kilogram
mg/kg	Milligrams per kilogram
BTV	Background threshold value
cPAH	Cumulative Polycyclic Aromatic Hydrocarbons
NR 720	ch. NR 720 Wisconsin Administrative Code
RCL	Residual contaminant level
	Constituent exceeds the ch. NR 720 soil to groundwater RCL
	Constituent exceeds the ch. NR 720 non-industrial direct contact RCL
	Exceeds Cumulative cPAH Risk Threshold (>5.0E-06)
^	Carcinogenic Polycyclic Aromatic Hydrocarbon (cPAH)
<	Analyte not detected at a concentration greater than the laboratory reporting limit.
*+	Laboratory control sample/duplicate is outside acceptance limits, high biased.
B	Compound was found in the laboratory method blank and sample.
J	Reported concentration is an approximate value.
F1	Matrix spike/duplicate recovery exceeds control limits.
F2	Matrix spike/duplicate relative percent difference exceeds control limits.
XX* [XXX]	Standard in bold is the SBTV being used for the purpose of evaluation under ch. NR700 WAC. The established WAC RCL is noted in brackets.

ATTACHMENT A

Photographic Log

Stantec

Photographic Log

Client:	**Vinton Construction Co.**	**Project:**	**193710442**
Site Name:	**County Road R/Rapids Road Soil Characterization**	**Site Location:**	**Manitowoc, Wisconsin**

Photograph ID: 1

Photo Location:
STA 106+00

Direction:
Looking northeast

Survey Date:
3/12/2024

Comments:
Soil from TP-2

Photograph ID: 2

Photo Location:
STA 110+00

Direction:
Looking north

Survey Date:
3/12/2024

Comments:
Soil from TP-3

Client:	**Vinton Construction Co.**	**Project:**	**193710442**
Site Name:	**County Road R/Rapids Road Soil Characterization**	**Site Location:**	**Manitowoc, Wisconsin**

Photograph ID: 3 **Photo Location:** STA 114+00 **Direction:** Looking east **Survey Date:** 3/12/2024 **Comments:** Soil from TP-4	
Photograph ID: 4 **Photo Location:** STA 118+00 **Direction:** Looking northeast **Survey Date:** 3/12/2024 **Comments:** Soil from TP-5	

Client:	**Vinton Construction Co.**	**Project:**	**193710442**
Site Name:	**County Road R/Rapids Road Soil Characterization**	**Site Location:**	**Manitowoc, Wisconsin**

Photograph ID: 5 **Photo Location:** STA 122+00 **Direction:** Looking north **Survey Date:** 3/12/2024 **Comments:** Soil from TP-6	
Photograph ID: 6 **Photo Location:** STA 126+00 **Direction:** Looking north **Survey Date:** 3/12/2024 **Comments:** Soil from TP-7	

Client:	**Vinton Construction Co.**	**Project:**	**193710442**
Site Name:	**County Road R/Rapids Road Soil Characterization**	**Site Location:**	**Manitowoc, Wisconsin**

Photograph ID: 7 **Photo Location:** STA 141+00 **Direction:** Looking north **Survey Date:** 3/12/2024 **Comments:** Soil from TP-11	
Photograph ID: 8 **Photo Location:** STA 146+00 **Direction:** Looking north **Survey Date:** 3/12/2024 **Comments:** Soil from TP-12	

Client:	**Vinton Construction Co.**	**Project:**	**193710442**
Site Name:	**County Road R/Rapids Road Soil Characterization**	**Site Location:**	**Manitowoc, Wisconsin**

Photograph ID: 9

Photo Location:
STA 150+00

Direction:
Looking northeast

Survey Date:
3/12/2024

Comments:
Soil from TP-13

Photograph ID: 10

Photo Location:
STA 154+00

Direction:
Looking north

Survey Date:
3/12/2024

Comments:
Soil from TP-14

ATTACHMENT B

Laboratory Report

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jiyan Hatami
Stantec Consulting Corporation
12080 Corporate Parkway, Suite 200
Mequon, Wisconsin 53092

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JOB DESCRIPTION

County Rd R/Rapids Rd ROW - 193710442.203

JOB NUMBER

500-247366-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization

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3/28/2024 3:33:19 PM

Authorized for release by
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Designee for
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
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Table of Contents

Job Narrative
500-247366-1

Receipt
The samples were received on 3/13/2024 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8º C.

GC/MS VOA
Method 8260D: The matrix spike/ matrix spike duplicate (MS/MSD) for the following sample was analyzed outside the 12 hour tune window. No further action was taken.TP-8 STA 130+00 0-1.5' (500-247366-8) and TP-18 STA 170+00 0-1' (500-247366-18)

Method 8260D: The laboratory control sample (LCS) for 758195 recovered outside control limits for several analytes. This is a prepped 5035 LCS. All daily instrument LCSs were acceptable, and the data have been reported.TP-1 STA 102+00 0-2' (500-247366-1), TP-2 STA 106+00 0-2' (500-247366-2), TP-3 STA 110+00 0-2.5' (500-247366-3), TP-4 STA 114+00 0-1.5' (500-247366-4), TP-5 STA 118+00 0-2' (500-247366-5), TP-6 STA 122+00 0-1.5' (500-247366-6), TP-7 STA 126+00 0-1.5' (500-247366-7), TP-8 STA 130+00 0-1.5' (500-247366-8) and TP-9 STA 134+00 0-1.5' (500-247366-9)

Method 8260D: Internal standard (Chlorobenzene-d5) response was outside of acceptance limits for the following sample: TP-11 STA 141+00 0-1' (500-247366-11). A low response with an Internal Standard creates a high bias for analytes. The sample did not have detects of requested analytes using this internal standard. Surrogate Toluene-d8(surr) is also being quantitated with this internal standard.

Method 8260D: The method blank for preparation batch 500-758195, 500-758197, 500-758197, 500-758197, 500-758197, 500-758197, 500-758197, 500-758197, 500-758197 and analytical batch 500-758850 contained m-Xylene & p-Xylene, 1,2,4-Trichlorobenzene, Naphthalene and Trichloroethene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The laboratory control sample (LCS) for preparation batch 500-758197, 500-758197, 500-758197, 500-758197 and 500-758197 and analytical batch 500-759063 recovered outside control limits for the following analytes: Chlorobromomethane and Trichloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; 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/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in 500-759771 was outside the method criteria for the following analyte(s): Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-759498 and analytical batch 500-759771 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: TP-1 STA 102+00 0-2' (500-247366-1), TP-3 STA 110+00 0-2.5' (500-247366-3), TP-5 STA 118+00 0-2' (500-247366-5), TP-6 STA 122+00 0-1.5' (500-247366-6), TP-8 STA 130+00 0-1.5' (500-247366-8), TP-10 STA 138+00 0-1.5' (500-247366-10), TP-15 STA 158+00 0-1' (500-247366-15), TP-16 STA 163+00 0-1' (500-247366-16), TP-18 STA 170+00 0-1' (500-247366-18) and TP-19 STA 174+00 0-1' (500-247366-19). Elevated reporting limits (RLs) are provided.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-759952 was outside the method criteria for the following analyte(s): Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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.

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

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

Client Sample ID: TP-1 STA 102+00 0-2'
Lab Sample ID: 500-247366-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	39	J *+	140	25	ug/Kg	50	☼	8260D	Total/NA
Acenaphthene	80		76	16	ug/Kg	2	☼	8270E	Total/NA
Anthracene	340		76	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	720		76	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	700		76	74	ug/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	990		76	73	ug/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	520		76	17	ug/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	320		76	29	ug/Kg	2	☼	8270E	Total/NA
Chrysene	860		76	20	ug/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	150		76	76	ug/Kg	2	☼	8270E	Total/NA
Fluoranthene	2100		76	18	ug/Kg	2	☼	8270E	Total/NA
Fluorene	83		76	23	ug/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	680		76	74	ug/Kg	2	☼	8270E	Total/NA
Phenanthrene	1200		76	17	ug/Kg	2	☼	8270E	Total/NA
Pyrene	1600		76	21	ug/Kg	2	☼	8270E	Total/NA
Arsenic	3.0		1.1	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	74	B	1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.23	B	0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	23		1.1	0.52	mg/Kg	1	☼	6010D	Total/NA
Lead	41	F1 F2	0.53	0.24	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.034		0.018	0.0097	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-2 STA 106+00 0-2'
Lab Sample ID: 500-247366-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	28	J *+	110	20	ug/Kg	50	☼	8260D	Total/NA
Anthracene	9.1	J F1	34	7.0	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	26	J	34	7.3	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	50		34	33	ug/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	41	F1	34	7.4	ug/Kg	1	☼	8270E	Total/NA
Chrysene	21	J	34	9.0	ug/Kg	1	☼	8270E	Total/NA
Fluoranthene	59		34	7.9	ug/Kg	1	☼	8270E	Total/NA
Phenanthrene	34		34	7.4	ug/Kg	1	☼	8270E	Total/NA
Pyrene	49		34	9.3	ug/Kg	1	☼	8270E	Total/NA
Arsenic	0.47	J	1.0	0.35	mg/Kg	1	☼	6010D	Total/NA
Barium	14	B	1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.35	B	0.21	0.037	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.2		1.0	0.51	mg/Kg	1	☼	6010D	Total/NA
Lead	0.69		0.52	0.24	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: TP-3 STA 110+00 0-2.5'
Lab Sample ID: 500-247366-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	9.9	J	17	9.7	ug/Kg	50	☼	8260D	Total/NA
Chloroform	29	J *+	130	25	ug/Kg	50	☼	8260D	Total/NA
Benzo[a]anthracene	46	J	75	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	100		75	73	ug/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	96		75	16	ug/Kg	2	☼	8270E	Total/NA
Chrysene	29	J	75	20	ug/Kg	2	☼	8270E	Total/NA
Fluoranthene	57	J	75	18	ug/Kg	2	☼	8270E	Total/NA
Phenanthrene	24	J	75	16	ug/Kg	2	☼	8270E	Total/NA
Pyrene	46	J	75	21	ug/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-3 STA 110+00 0-2.5' (Continued) — Lab Sample ID: 500-247366-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.6		1.1	0.39	mg/Kg	1	☼	6010D	Total/NA
Barium	65	B	1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.29	B	0.23	0.041	mg/Kg	1	☼	6010D	Total/NA
Chromium	22		1.1	0.56	mg/Kg	1	☼	6010D	Total/NA
Lead	18		0.56	0.26	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.029		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-4 STA 114+00 0-1.5' — Lab Sample ID: 500-247366-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	27	J *+	130	23	ug/Kg	50	☼	8260D	Total/NA
Benzo[a]anthracene	30	J	37	7.9	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	55		37	36	ug/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	35	J	37	35	ug/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	51		37	8.0	ug/Kg	1	☼	8270E	Total/NA
Chrysene	26	J	37	9.8	ug/Kg	1	☼	8270E	Total/NA
Fluoranthene	48		37	8.6	ug/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	37		37	36	ug/Kg	1	☼	8270E	Total/NA
Phenanthrene	19	J	37	8.1	ug/Kg	1	☼	8270E	Total/NA
Pyrene	44		37	10	ug/Kg	1	☼	8270E	Total/NA
Arsenic	2.6		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	53	B	1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.17	J B	0.21	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	19		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Lead	54		0.54	0.25	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.011	J	0.018	0.0097	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-5 STA 118+00 0-2' — Lab Sample ID: 500-247366-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	35	J *+	120	23	ug/Kg	50	☼	8260D	Total/NA
Anthracene	62	J	73	15	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	180		73	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	230		73	71	ug/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	270		73	70	ug/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	200		73	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	92		73	28	ug/Kg	2	☼	8270E	Total/NA
Chrysene	220		73	19	ug/Kg	2	☼	8270E	Total/NA
Fluoranthene	460		73	17	ug/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	210		73	72	ug/Kg	2	☼	8270E	Total/NA
Phenanthrene	210		73	16	ug/Kg	2	☼	8270E	Total/NA
Pyrene	380		73	20	ug/Kg	2	☼	8270E	Total/NA
Arsenic	1.7		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	39	B	1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.18	J B	0.22	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	13		1.1	0.54	mg/Kg	1	☼	6010D	Total/NA
Lead	120		0.54	0.25	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: TP-6 STA 122+00 0-1.5' — Lab Sample ID: 500-247366-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	48	J *+	130	24	ug/Kg	50	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-6 STA 122+00 0-1.5' (Continued) — Lab Sample ID: 500-247366-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	53	J	74	15	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	180		74	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	230		74	72	ug/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	220		74	71	ug/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	190		74	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	90		74	28	ug/Kg	2	☼	8270E	Total/NA
Chrysene	180		74	20	ug/Kg	2	☼	8270E	Total/NA
Fluoranthene	420		74	17	ug/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	200		74	73	ug/Kg	2	☼	8270E	Total/NA
Phenanthrene	220		74	16	ug/Kg	2	☼	8270E	Total/NA
Pyrene	350		74	20	ug/Kg	2	☼	8270E	Total/NA
Arsenic	3.0		0.98	0.33	mg/Kg	1	☼	6010D	Total/NA
Barium	72	B	0.98	0.11	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.33	B	0.20	0.035	mg/Kg	1	☼	6010D	Total/NA
Chromium	22		0.98	0.48	mg/Kg	1	☼	6010D	Total/NA
Lead	55		0.49	0.23	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.025		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-7 STA 126+00 0-1.5' — Lab Sample ID: 500-247366-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	26	J *+	130	24	ug/Kg	50	☼	8260D	Total/NA
Anthracene	9.3	J	36	7.3	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	44		36	7.6	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	73		36	35	ug/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	62		36	34	ug/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	66		36	7.8	ug/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	21	J	36	14	ug/Kg	1	☼	8270E	Total/NA
Chrysene	48		36	9.5	ug/Kg	1	☼	8270E	Total/NA
Fluoranthene	97		36	8.4	ug/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	57		36	35	ug/Kg	1	☼	8270E	Total/NA
Phenanthrene	37		36	7.8	ug/Kg	1	☼	8270E	Total/NA
Pyrene	78		36	9.8	ug/Kg	1	☼	8270E	Total/NA
Arsenic	2.0		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	31	B	1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.12	J B	0.22	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	14		1.1	0.54	mg/Kg	1	☼	6010D	Total/NA
Lead	19		0.54	0.25	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: TP-8 STA 130+00 0-1.5' — Lab Sample ID: 500-247366-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	44	J	73	15	ug/Kg	2	☼	8270E	Total/NA
Acenaphthylene	15	J	73	13	ug/Kg	2	☼	8270E	Total/NA
Anthracene	120		73	15	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	750		73	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	1000		73	71	ug/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	1500		73	70	ug/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	930		73	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	660		73	28	ug/Kg	2	☼	8270E	Total/NA
Chrysene	1200		73	19	ug/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	230		73	73	ug/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-8 STA 130+00 0-1.5' (Continued) — Lab Sample ID: 500-247366-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	2400		73	17	ug/Kg	2	☼	8270E	Total/NA
Fluorene	48	J	73	22	ug/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1200		73	72	ug/Kg	2	☼	8270E	Total/NA
Phenanthrene	1000		73	16	ug/Kg	2	☼	8270E	Total/NA
Pyrene	1900		73	20	ug/Kg	2	☼	8270E	Total/NA
Arsenic	1.4		0.96	0.33	mg/Kg	1	☼	6010D	Total/NA
Barium	24	B	0.96	0.11	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.21	B	0.19	0.035	mg/Kg	1	☼	6010D	Total/NA
Chromium	13		0.96	0.48	mg/Kg	1	☼	6010D	Total/NA
Lead	14		0.48	0.22	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: TP-9 STA 134+00 0-1.5' — Lab Sample ID: 500-247366-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	26	J *+	120	22	ug/Kg	50	☼	8260D	Total/NA
Anthracene	19	J	35	7.2	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	110		35	7.5	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	140		35	34	ug/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	180		35	33	ug/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	110		35	7.6	ug/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	66		35	13	ug/Kg	1	☼	8270E	Total/NA
Chrysene	130		35	9.3	ug/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	41		35	35	ug/Kg	1	☼	8270E	Total/NA
Fluoranthene	240		35	8.2	ug/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	130		35	34	ug/Kg	1	☼	8270E	Total/NA
Phenanthrene	97		35	7.6	ug/Kg	1	☼	8270E	Total/NA
Pyrene	210		35	9.6	ug/Kg	1	☼	8270E	Total/NA
Arsenic	1.1		1.0	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	24	B	1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.20	J B	0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.0		1.0	0.52	mg/Kg	1	☼	6010D	Total/NA
Lead	35		0.52	0.24	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.014	J	0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-10 STA 138+00 0-1.5' — Lab Sample ID: 500-247366-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	32	J	74	15	ug/Kg	2	☼	8270E	Total/NA
Anthracene	130		74	15	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	330		74	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	380		74	72	ug/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	510		74	71	ug/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	350		74	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	170		74	28	ug/Kg	2	☼	8270E	Total/NA
Chrysene	410		74	20	ug/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	92		74	74	ug/Kg	2	☼	8270E	Total/NA
Fluoranthene	910		74	17	ug/Kg	2	☼	8270E	Total/NA
Fluorene	33	J	74	22	ug/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	370		74	72	ug/Kg	2	☼	8270E	Total/NA
Phenanthrene	490		74	16	ug/Kg	2	☼	8270E	Total/NA
Pyrene	760		74	20	ug/Kg	2	☼	8270E	Total/NA
Arsenic	1.9		1.1	0.39	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-10 STA 138+00 0-1.5' (Continued) — Lab Sample ID: 500-247366-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	36	B	1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.22	J B	0.23	0.041	mg/Kg	1	☼	6010D	Total/NA
Chromium	12		1.1	0.57	mg/Kg	1	☼	6010D	Total/NA
Lead	49		0.57	0.27	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.020		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-11 STA 141+00 0-1' — Lab Sample ID: 500-247366-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	41		39	8.3	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	77		39	38	ug/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	76		39	37	ug/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	68		39	8.4	ug/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	23	J	39	15	ug/Kg	1	☼	8270E	Total/NA
Chrysene	51		39	10	ug/Kg	1	☼	8270E	Total/NA
Fluoranthene	110		39	9.0	ug/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	53		39	38	ug/Kg	1	☼	8270E	Total/NA
Phenanthrene	49		39	8.5	ug/Kg	1	☼	8270E	Total/NA
Pyrene	92		39	11	ug/Kg	1	☼	8270E	Total/NA
Arsenic	2.9		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	68	B	1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.053	J B	0.21	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	20		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Lead	58		0.53	0.25	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.022		0.017	0.0090	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-12 STA 146+00 0-1' — Lab Sample ID: 500-247366-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	29	J	130	25	ug/Kg	50	☼	8260D	Total/NA
Benzo[a]anthracene	60		38	8.0	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	110		38	37	ug/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	150		38	36	ug/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	120		38	8.2	ug/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	49		38	14	ug/Kg	1	☼	8270E	Total/NA
Chrysene	96		38	10	ug/Kg	1	☼	8270E	Total/NA
Fluoranthene	150		38	8.8	ug/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	120		38	37	ug/Kg	1	☼	8270E	Total/NA
Phenanthrene	49		38	8.3	ug/Kg	1	☼	8270E	Total/NA
Pyrene	130		38	10	ug/Kg	1	☼	8270E	Total/NA
Arsenic	1.5		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	30	B	1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.20	J B	0.22	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	13		1.1	0.54	mg/Kg	1	☼	6010D	Total/NA
Lead	8.8		0.54	0.25	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.016	J	0.017	0.0092	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-13 STA 150+00 0-1' — Lab Sample ID: 500-247366-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	58		39	8.2	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	100		39	37	ug/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-13 STA 150+00 0-1' (Continued) — Lab Sample ID: 500-247366-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	120		39	37	ug/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	97		39	8.4	ug/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	47		39	15	ug/Kg	1	☼	8270E	Total/NA
Chrysene	72		39	10	ug/Kg	1	☼	8270E	Total/NA
Fluoranthene	110		39	9.0	ug/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	95		39	38	ug/Kg	1	☼	8270E	Total/NA
Phenanthrene	31	J	39	8.4	ug/Kg	1	☼	8270E	Total/NA
Pyrene	100		39	11	ug/Kg	1	☼	8270E	Total/NA
Arsenic	2.3		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	40	B	1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.18	J B	0.22	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	14		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Lead	14		0.54	0.25	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.025		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-14 STA 154+00 0-1' — Lab Sample ID: 500-247366-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	20	J	74	15	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	140		74	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	240		74	72	ug/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	280		74	71	ug/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	260		74	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	93		74	28	ug/Kg	2	☼	8270E	Total/NA
Chrysene	170		74	20	ug/Kg	2	☼	8270E	Total/NA
Fluoranthene	320		74	17	ug/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	270		74	72	ug/Kg	2	☼	8270E	Total/NA
Phenanthrene	110		74	16	ug/Kg	2	☼	8270E	Total/NA
Pyrene	270		74	20	ug/Kg	2	☼	8270E	Total/NA
Arsenic	2.2		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	35	B	1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.16	J B	0.21	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	15		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Lead	7.6		0.54	0.25	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: TP-15 STA 158+00 0-1' — Lab Sample ID: 500-247366-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	31	J	120	23	ug/Kg	50	☼	8260D	Total/NA
Anthracene	32	J	72	15	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	280		72	15	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	440		72	70	ug/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	660		72	69	ug/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	480		72	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	270		72	28	ug/Kg	2	☼	8270E	Total/NA
Chrysene	470		72	19	ug/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	120		72	72	ug/Kg	2	☼	8270E	Total/NA
Fluoranthene	750		72	17	ug/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	560		72	71	ug/Kg	2	☼	8270E	Total/NA
Phenanthrene	200		72	16	ug/Kg	2	☼	8270E	Total/NA
Pyrene	590		72	20	ug/Kg	2	☼	8270E	Total/NA
Arsenic	1.5		1.0	0.36	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-15 STA 158+00 0-1' (Continued)
Lab Sample ID: 500-247366-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	27	B	1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.18	J B	0.21	0.037	mg/Kg	1	☼	6010D	Total/NA
Chromium	12		1.0	0.51	mg/Kg	1	☼	6010D	Total/NA
Lead	8.1		0.52	0.24	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: TP-16 STA 163+00 0-1'
Lab Sample ID: 500-247366-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	32	J	140	25	ug/Kg	50	☼	8260D	Total/NA
Anthracene	46	J	77	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	460		77	17	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	650		77	75	ug/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	1000		77	74	ug/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	620		77	17	ug/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	340		77	30	ug/Kg	2	☼	8270E	Total/NA
Chrysene	680		77	21	ug/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	150		77	77	ug/Kg	2	☼	8270E	Total/NA
Fluoranthene	1300		77	18	ug/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	760		77	76	ug/Kg	2	☼	8270E	Total/NA
Naphthalene	14	J	77	14	ug/Kg	2	☼	8270E	Total/NA
Phenanthrene	350		77	17	ug/Kg	2	☼	8270E	Total/NA
Pyrene	1100		77	21	ug/Kg	2	☼	8270E	Total/NA
Arsenic	2.4		1.2	0.40	mg/Kg	1	☼	6010D	Total/NA
Barium	47	B	1.2	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.19	J B	0.23	0.042	mg/Kg	1	☼	6010D	Total/NA
Chromium	15		1.2	0.58	mg/Kg	1	☼	6010D	Total/NA
Lead	14		0.58	0.27	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.017	J	0.019	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-17 STA 166+25 0-1.5'
Lab Sample ID: 500-247366-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	29	J	71	15	ug/Kg	2	☼	8270E	Total/NA
Acenaphthylene	15	J	71	12	ug/Kg	2	☼	8270E	Total/NA
Anthracene	130		71	15	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	560		71	15	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	710		71	69	ug/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	1100		71	68	ug/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	680		71	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	380		71	27	ug/Kg	2	☼	8270E	Total/NA
Chrysene	780		71	19	ug/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	180		71	71	ug/Kg	2	☼	8270E	Total/NA
Fluoranthene	1400		71	17	ug/Kg	2	☼	8270E	Total/NA
Fluorene	32	J	71	21	ug/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	870		71	70	ug/Kg	2	☼	8270E	Total/NA
Phenanthrene	540		71	16	ug/Kg	2	☼	8270E	Total/NA
Pyrene	1100		71	20	ug/Kg	2	☼	8270E	Total/NA
Arsenic	2.0		1.1	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	30	B	1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.31	B	0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	12		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Lead	89		0.53	0.25	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-17 STA 166+25 0-1.5' (Continued) — Lab Sample ID: 500-247366-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.013	J	0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-18 STA 170+00 0-1' — Lab Sample ID: 500-247366-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	35	J	78	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	250		78	17	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	380		78	76	ug/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	520		78	75	ug/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	410		78	17	ug/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	160		78	30	ug/Kg	2	☼	8270E	Total/NA
Chrysene	340		78	21	ug/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	110		78	78	ug/Kg	2	☼	8270E	Total/NA
Fluoranthene	600		78	18	ug/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	420		78	77	ug/Kg	2	☼	8270E	Total/NA
Phenanthrene	230		78	17	ug/Kg	2	☼	8270E	Total/NA
Pyrene	510		78	22	ug/Kg	2	☼	8270E	Total/NA
Arsenic	1.2		1.0	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	32	B	1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.17	J B	0.21	0.037	mg/Kg	1	☼	6010D	Total/NA
Chromium	23		1.0	0.51	mg/Kg	1	☼	6010D	Total/NA
Lead	11		0.52	0.24	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.014	J	0.019	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-19 STA 174+00 0-1' — Lab Sample ID: 500-247366-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	17	J	78	16	ug/Kg	2	☼	8270E	Total/NA
Anthracene	53	J	78	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	340		78	17	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	460		78	76	ug/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	710		78	75	ug/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	460		78	17	ug/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	240		78	30	ug/Kg	2	☼	8270E	Total/NA
Chrysene	470		78	21	ug/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	110		78	78	ug/Kg	2	☼	8270E	Total/NA
Fluoranthene	910		78	18	ug/Kg	2	☼	8270E	Total/NA
Fluorene	23	J	78	23	ug/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	550		78	76	ug/Kg	2	☼	8270E	Total/NA
Naphthalene	14	J	78	14	ug/Kg	2	☼	8270E	Total/NA
Phenanthrene	420		78	17	ug/Kg	2	☼	8270E	Total/NA
Pyrene	780		78	21	ug/Kg	2	☼	8270E	Total/NA
Arsenic	1.6		1.0	0.35	mg/Kg	1	☼	6010D	Total/NA
Barium	32	B	1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.22	B	0.20	0.036	mg/Kg	1	☼	6010D	Total/NA
Chromium	19		1.0	0.50	mg/Kg	1	☼	6010D	Total/NA
Lead	14		0.51	0.23	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: DUP-1 — Lab Sample ID: 500-247366-20

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-20 STA 177+50 0-1'
Lab Sample ID: 500-247366-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	64	J	74	15	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	200		74	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	250		74	72	ug/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	300		74	71	ug/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	250		74	16	ug/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	96		74	28	ug/Kg	2	☼	8270E	Total/NA
Chrysene	230		74	20	ug/Kg	2	☼	8270E	Total/NA
Fluoranthene	480		74	17	ug/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	270		74	72	ug/Kg	2	☼	8270E	Total/NA
Phenanthrene	230		74	16	ug/Kg	2	☼	8270E	Total/NA
Pyrene	390		74	20	ug/Kg	2	☼	8270E	Total/NA
Arsenic	1.4		1.0	0.35	mg/Kg	1	☼	6010D	Total/NA
Barium	25	B	1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.27	B	0.20	0.036	mg/Kg	1	☼	6010D	Total/NA
Chromium	11		1.0	0.50	mg/Kg	1	☼	6010D	Total/NA
Lead	44		0.51	0.23	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-247366-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	30	J	100	19	ug/Kg	50		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

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:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-247366-1	TP-1 STA 102+00 0-2'	Solid	03/12/24 09:00	03/13/24 10:05
500-247366-2	TP-2 STA 106+00 0-2'	Solid	03/12/24 09:13	03/13/24 10:05
500-247366-3	TP-3 STA 110+00 0-2.5'	Solid	03/12/24 09:23	03/13/24 10:05
500-247366-4	TP-4 STA 114+00 0-1.5'	Solid	03/12/24 09:35	03/13/24 10:05
500-247366-5	TP-5 STA 118+00 0-2'	Solid	03/12/24 09:50	03/13/24 10:05
500-247366-6	TP-6 STA 122+00 0-1.5'	Solid	03/12/24 09:55	03/13/24 10:05
500-247366-7	TP-7 STA 126+00 0-1.5'	Solid	03/12/24 10:05	03/13/24 10:05
500-247366-8	TP-8 STA 130+00 0-1.5'	Solid	03/12/24 10:15	03/13/24 10:05
500-247366-9	TP-9 STA 134+00 0-1.5'	Solid	03/12/24 10:35	03/13/24 10:05
500-247366-10	TP-10 STA 138+00 0-1.5'	Solid	03/12/24 10:45	03/13/24 10:05
500-247366-11	TP-11 STA 141+00 0-1'	Solid	03/12/24 10:50	03/13/24 10:05
500-247366-12	TP-12 STA 146+00 0-1'	Solid	03/12/24 11:00	03/13/24 10:05
500-247366-13	TP-13 STA 150+00 0-1'	Solid	03/12/24 11:15	03/13/24 10:05
500-247366-14	TP-14 STA 154+00 0-1'	Solid	03/12/24 11:25	03/13/24 10:05
500-247366-15	TP-15 STA 158+00 0-1'	Solid	03/12/24 11:35	03/13/24 10:05
500-247366-16	TP-16 STA 163+00 0-1'	Solid	03/12/24 11:50	03/13/24 10:05
500-247366-17	TP-17 STA 166+25 0-1.5'	Solid	03/12/24 12:05	03/13/24 10:05
500-247366-18	TP-18 STA 170+00 0-1'	Solid	03/12/24 12:15	03/13/24 10:05
500-247366-19	TP-19 STA 174+00 0-1'	Solid	03/12/24 12:25	03/13/24 10:05
500-247366-20	DUP-1	Solid	03/12/24 12:26	03/13/24 10:05
500-247366-21	TP-20 STA 177+50 0-1'	Solid	03/12/24 12:35	03/13/24 10:05
500-247366-22	TRIP BLANK	Solid	03/12/24 00:00	03/13/24 10:05

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-1 STA 102+00 0-2'
Lab Sample ID: 500-247366-1
Date Collected: 03/12/24 09:00
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 84.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		69	32	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
1,1,1-Trichloroethane	<26		69	26	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
1,1,2,2-Tetrachloroethane	<27		69	27	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
1,1,2-Trichloroethane	<24		69	24	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
1,1-Dichloroethane	<28		69	28	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
1,1-Dichloroethene	<27		69	27	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
1,1-Dichloropropene	<20	*+	69	20	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
1,2,3-Trichlorobenzene	<31		69	31	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
1,2,3-Trichloropropane	<28		140	28	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
1,2,4-Trichlorobenzene	<23		69	23	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
1,2,4-Trimethylbenzene	<25		69	25	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
1,2-Dibromo-3-Chloropropane	<140		340	140	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
1,2-Dichlorobenzene	<23		69	23	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
1,2-Dichloroethane	<27		69	27	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
1,2-Dichloropropane	<29		69	29	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
1,3,5-Trimethylbenzene	<26	*+	69	26	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
1,3-Dichlorobenzene	<27		69	27	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
1,3-Dichloropropane	<25		69	25	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
1,4-Dichlorobenzene	<25		69	25	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
2,2-Dichloropropane	<30		340	30	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
2-Chlorotoluene	<22		69	22	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
4-Chlorotoluene	<24		69	24	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
4-Isopropyltoluene	<25	*+	69	25	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Benzene	<10		17	10	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Bromobenzene	<24	*+	69	24	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Bromoform	<33		69	33	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Bromomethane	<55		210	55	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Carbon tetrachloride	<26		69	26	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Chlorobenzene	<26		69	26	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Chlorobromomethane	<29	*+	69	29	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Chlorodibromomethane	<33		69	33	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Chloroethane	<35		340	35	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Chloroform	**39**	**J *+**	140	25	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Chloromethane	<22		340	22	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
cis-1,2-Dichloroethene	<28		69	28	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
cis-1,3-Dichloropropene	<29		69	29	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Dibromomethane	<19		69	19	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Dichlorobromomethane	<26		69	26	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Dichlorodifluoromethane	<46		210	46	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Ethylbenzene	<13		17	13	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Ethylene Dibromide	<26		69	26	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Hexachlorobutadiene	<31		69	31	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Isopropyl ether	<19		69	19	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Isopropylbenzene	<26		69	26	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Methyl tert-butyl ether	<27		69	27	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Methylene Chloride	<110		340	110	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Naphthalene	<23		69	23	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
n-Butylbenzene	<27		69	27	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
N-Propylbenzene	<28		69	28	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50

Client Sample ID: TP-1 STA 102+00 0-2'
Lab Sample ID: 500-247366-1

Date Collected: 03/12/24 09:00
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 84.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27	*+	69	27	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Styrene	<26		69	26	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
tert-Butylbenzene	<27	*+	69	27	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Tetrachloroethene	<25		69	25	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Toluene	<10		17	10	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
trans-1,2-Dichloroethene	<24		69	24	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
trans-1,3-Dichloropropene	<25		69	25	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Trichloroethene	<11		34	11	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Trichlorofluoromethane	<29	*+	69	29	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Vinyl chloride	<18		69	18	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50
Xylenes, Total	<15		34	15	ug/Kg	☼	03/12/24 09:00	03/15/24 17:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*75 - 126*	*03/12/24 09:00*	*03/15/24 17:22*	*50*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*	*03/12/24 09:00*	*03/15/24 17:22*	*50*
Dibromofluoromethane (Surr)	*109*		*75 - 120*	*03/12/24 09:00*	*03/15/24 17:22*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*03/12/24 09:00*	*03/15/24 17:22*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<14		150	14	ug/Kg	☼	03/22/24 07:54	03/25/24 18:43	2
2-Methylnaphthalene	<15		150	15	ug/Kg	☼	03/22/24 07:54	03/25/24 18:43	2
Acenaphthene	**80**		76	16	ug/Kg	☼	03/22/24 07:54	03/25/24 18:43	2
Acenaphthylene	<13		76	13	ug/Kg	☼	03/22/24 07:54	03/25/24 18:43	2
Anthracene	**340**		76	16	ug/Kg	☼	03/22/24 07:54	03/25/24 18:43	2
Benzo[a]anthracene	**720**		76	16	ug/Kg	☼	03/22/24 07:54	03/25/24 18:43	2
Benzo[a]pyrene	**700**		76	74	ug/Kg	☼	03/22/24 07:54	03/25/24 18:43	2
Benzo[b]fluoranthene	**990**		76	73	ug/Kg	☼	03/22/24 07:54	03/25/24 18:43	2
Benzo[g,h,i]perylene	**520**		76	17	ug/Kg	☼	03/22/24 07:54	03/25/24 18:43	2
Benzo[k]fluoranthene	**320**		76	29	ug/Kg	☼	03/22/24 07:54	03/25/24 18:43	2
Chrysene	**860**		76	20	ug/Kg	☼	03/22/24 07:54	03/25/24 18:43	2
Dibenz(a,h)anthracene	**150**		76	76	ug/Kg	☼	03/22/24 07:54	03/25/24 18:43	2
Fluoranthene	**2100**		76	18	ug/Kg	☼	03/22/24 07:54	03/25/24 18:43	2
Fluorene	**83**		76	23	ug/Kg	☼	03/22/24 07:54	03/25/24 18:43	2
Indeno[1,2,3-cd]pyrene	**680**		76	74	ug/Kg	☼	03/22/24 07:54	03/25/24 18:43	2
Naphthalene	<14		76	14	ug/Kg	☼	03/22/24 07:54	03/25/24 18:43	2
Phenanthrene	**1200**		76	17	ug/Kg	☼	03/22/24 07:54	03/25/24 18:43	2
Pyrene	**1600**		76	21	ug/Kg	☼	03/22/24 07:54	03/25/24 18:43	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*76*		*37 - 147*	*03/22/24 07:54*	*03/25/24 18:43*	*2*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*03/22/24 07:54*	*03/25/24 18:43*	*2*
Terphenyl-d14 (Surr)	*83*		*42 - 157*	*03/22/24 07:54*	*03/25/24 18:43*	*2*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.0**		1.1	0.36	mg/Kg	☼	03/20/24 10:21	03/27/24 21:04	1
Barium	**74**	**B**	1.1	0.12	mg/Kg	☼	03/20/24 10:21	03/27/24 21:04	1
Cadmium	**0.23**	**B**	0.21	0.038	mg/Kg	☼	03/20/24 10:21	03/27/24 21:04	1
Chromium	**23**		1.1	0.52	mg/Kg	☼	03/20/24 10:21	03/27/24 21:04	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-1 STA 102+00 0-2'
Lab Sample ID: 500-247366-1
Date Collected: 03/12/24 09:00
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 84.8

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**41**	**F1 F2**	0.53	0.24	mg/Kg	☼	03/20/24 10:21	03/27/24 21:04	1
Selenium	<0.62		1.1	0.62	mg/Kg	☼	03/20/24 10:21	03/27/24 21:04	1
Silver	<0.14	F1	0.53	0.14	mg/Kg	☼	03/20/24 10:21	03/27/24 21:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.018	0.0097	mg/Kg	☼	03/26/24 16:40	03/27/24 06:58	1

Client: Stantec Consulting Corporation
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Job ID: 500-247366-1

Client Sample ID: TP-2 STA 106+00 0-2'
Date Collected: 03/12/24 09:13
Date Received: 03/13/24 10:05

Lab Sample ID: 500-247366-2
Matrix: Solid
Percent Solids: 95.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<25		55	25	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
1,1,1-Trichloroethane	<21		55	21	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
1,1,2,2-Tetrachloroethane	<22		55	22	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
1,1,2-Trichloroethane	<19		55	19	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
1,1-Dichloroethane	<22		55	22	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
1,1-Dichloroethene	<21		55	21	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
1,1-Dichloropropene	<16	*+	55	16	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
1,2,3-Trichlorobenzene	<25		55	25	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
1,2,3-Trichloropropane	<23		110	23	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
1,2,4-Trichlorobenzene	<19		55	19	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
1,2,4-Trimethylbenzene	<20		55	20	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
1,2-Dibromo-3-Chloropropane	<110		270	110	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
1,2-Dichlorobenzene	<18		55	18	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
1,2-Dichloroethane	<21		55	21	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
1,2-Dichloropropane	<23		55	23	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
1,3,5-Trimethylbenzene	<21	*+	55	21	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
1,3-Dichlorobenzene	<22		55	22	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
1,3-Dichloropropane	<20		55	20	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
1,4-Dichlorobenzene	<20		55	20	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
2,2-Dichloropropane	<24		270	24	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
2-Chlorotoluene	<17		55	17	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
4-Chlorotoluene	<19		55	19	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
4-Isopropyltoluene	<20	*+	55	20	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Benzene	<8.0		14	8.0	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Bromobenzene	<20	*+	55	20	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Bromoform	<27		55	27	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Bromomethane	<44		160	44	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Carbon tetrachloride	<21		55	21	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Chlorobenzene	<21		55	21	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Chlorobromomethane	<23	*+	55	23	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Chlorodibromomethane	<27		55	27	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Chloroethane	<28		270	28	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Chloroform	**28**	**J *+**	110	20	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Chloromethane	<18		270	18	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
cis-1,2-Dichloroethene	<22		55	22	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
cis-1,3-Dichloropropene	<23		55	23	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Dibromomethane	<15		55	15	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Dichlorobromomethane	<20		55	20	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Dichlorodifluoromethane	<37		160	37	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Ethylbenzene	<10		14	10	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Ethylene Dibromide	<21		55	21	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Hexachlorobutadiene	<24		55	24	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Isopropyl ether	<15		55	15	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Isopropylbenzene	<21		55	21	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Methyl tert-butyl ether	<22		55	22	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Methylene Chloride	<89		270	89	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Naphthalene	<18		55	18	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
n-Butylbenzene	<21		55	21	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
N-Propylbenzene	<23		55	23	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50

Client: Stantec Consulting Corporation
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Job ID: 500-247366-1

Client Sample ID: TP-2 STA 106+00 0-2'

Date Collected: 03/12/24 09:13
Date Received: 03/13/24 10:05

Lab Sample ID: 500-247366-2

Matrix: Solid
Percent Solids: 95.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<22	*+	55	22	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Styrene	<21		55	21	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
tert-Butylbenzene	<22	*+	55	22	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Tetrachloroethene	<20		55	20	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Toluene	<8.1		14	8.1	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
trans-1,2-Dichloroethene	<19		55	19	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
trans-1,3-Dichloropropene	<20		55	20	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Trichloroethene	<9.0		27	9.0	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Trichlorofluoromethane	<23	*+	55	23	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Vinyl chloride	<14		55	14	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50
Xylenes, Total	<12		27	12	ug/Kg	☼	03/12/24 09:13	03/15/24 17:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 126*	*03/12/24 09:13*	*03/15/24 17:47*	*50*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*	*03/12/24 09:13*	*03/15/24 17:47*	*50*
Dibromofluoromethane (Surr)	*112*		*75 - 120*	*03/12/24 09:13*	*03/15/24 17:47*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*03/12/24 09:13*	*03/15/24 17:47*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<6.1	F1	69	6.1	ug/Kg	☼	03/22/24 07:54	03/25/24 14:11	1
2-Methylnaphthalene	<6.9	F1	69	6.9	ug/Kg	☼	03/22/24 07:54	03/25/24 14:11	1
Acenaphthene	<7.0	F1	34	7.0	ug/Kg	☼	03/22/24 07:54	03/25/24 14:11	1
Acenaphthylene	<5.8	F1	34	5.8	ug/Kg	☼	03/22/24 07:54	03/25/24 14:11	1
Anthracene	**9.1**	**J F1**	34	7.0	ug/Kg	☼	03/22/24 07:54	03/25/24 14:11	1
Benzo[a]anthracene	**26**	**J**	34	7.3	ug/Kg	☼	03/22/24 07:54	03/25/24 14:11	1
Benzo[a]pyrene	**50**		34	33	ug/Kg	☼	03/22/24 07:54	03/25/24 14:11	1
Benzo[b]fluoranthene	<33		34	33	ug/Kg	☼	03/22/24 07:54	03/25/24 14:11	1
Benzo[g,h,i]perylene	**41**	**F1**	34	7.4	ug/Kg	☼	03/22/24 07:54	03/25/24 14:11	1
Benzo[k]fluoranthene	<13		34	13	ug/Kg	☼	03/22/24 07:54	03/25/24 14:11	1
Chrysene	**21**	**J**	34	9.0	ug/Kg	☼	03/22/24 07:54	03/25/24 14:11	1
Dibenz(a,h)anthracene	<34		34	34	ug/Kg	☼	03/22/24 07:54	03/25/24 14:11	1
Fluoranthene	**59**		34	7.9	ug/Kg	☼	03/22/24 07:54	03/25/24 14:11	1
Fluorene	<10	F1	34	10	ug/Kg	☼	03/22/24 07:54	03/25/24 14:11	1
Indeno[1,2,3-cd]pyrene	<33		34	33	ug/Kg	☼	03/22/24 07:54	03/25/24 14:11	1
Naphthalene	<6.2	F1	34	6.2	ug/Kg	☼	03/22/24 07:54	03/25/24 14:11	1
Phenanthrene	**34**		34	7.4	ug/Kg	☼	03/22/24 07:54	03/25/24 14:11	1
Pyrene	**49**		34	9.3	ug/Kg	☼	03/22/24 07:54	03/25/24 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*76*		*37 - 147*	*03/22/24 07:54*	*03/25/24 14:11*	*1*
2-Fluorobiphenyl (Surr)	*66*		*43 - 145*	*03/22/24 07:54*	*03/25/24 14:11*	*1*
Terphenyl-d14 (Surr)	*76*		*42 - 157*	*03/22/24 07:54*	*03/25/24 14:11*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.47**	**J**	1.0	0.35	mg/Kg	☼	03/20/24 10:21	03/27/24 21:25	1
Barium	**14**	**B**	1.0	0.12	mg/Kg	☼	03/20/24 10:21	03/27/24 21:25	1
Cadmium	**0.35**	**B**	0.21	0.037	mg/Kg	☼	03/20/24 10:21	03/27/24 21:25	1
Chromium	**3.2**		1.0	0.51	mg/Kg	☼	03/20/24 10:21	03/27/24 21:25	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-2 STA 106+00 0-2'
Lab Sample ID: 500-247366-2
Date Collected: 03/12/24 09:13
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 95.6

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.69		0.52	0.24	mg/Kg	☼	03/20/24 10:21	03/27/24 21:25	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	03/20/24 10:21	03/27/24 21:25	1
Silver	<0.13		0.52	0.13	mg/Kg	☼	03/20/24 10:21	03/27/24 21:25	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0082		0.015	0.0082	mg/Kg	☼	03/26/24 16:40	03/27/24 07:01	1

Client: Stantec Consulting Corporation
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Job ID: 500-247366-1

Client Sample ID: TP-3 STA 110+00 0-2.5'
Date Collected: 03/12/24 09:23
Date Received: 03/13/24 10:05

Lab Sample ID: 500-247366-3
Matrix: Solid
Percent Solids: 85.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		66	31	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
1,1-Dichloroethane	<27		66	27	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
1,1-Dichloroethene	<26		66	26	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
1,1-Dichloropropene	<20	*+	66	20	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
1,2,3-Trichloropropane	<27		130	27	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
1,2,4-Trichlorobenzene	<23		66	23	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
1,3,5-Trimethylbenzene	<25	*+	66	25	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
1,3-Dichlorobenzene	<27		66	27	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
2,2-Dichloropropane	<29		330	29	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
4-Chlorotoluene	<23		66	23	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
4-Isopropyltoluene	<24	*+	66	24	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Benzene	**9.9**	**J**	17	9.7	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Bromobenzene	<24	*+	66	24	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Bromoform	<32		66	32	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Bromomethane	<53		200	53	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Chlorobenzene	<26		66	26	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Chlorobromomethane	<28	*+	66	28	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Chlorodibromomethane	<32		66	32	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Chloroethane	<33		330	33	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Chloroform	**29**	**J *+**	130	25	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Chloromethane	<21		330	21	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
cis-1,2-Dichloroethene	<27		66	27	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
cis-1,3-Dichloropropene	<28		66	28	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Dibromomethane	<18		66	18	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Dichlorobromomethane	<25		66	25	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Dichlorodifluoromethane	<45		200	45	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Ethylbenzene	<12		17	12	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Ethylene Dibromide	<26		66	26	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Hexachlorobutadiene	<30		66	30	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Isopropyl ether	<18		66	18	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Isopropylbenzene	<25		66	25	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Methyl tert-butyl ether	<26		66	26	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Methylene Chloride	<110		330	110	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Naphthalene	<22		66	22	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
n-Butylbenzene	<26		66	26	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
N-Propylbenzene	<27		66	27	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50

Client Sample ID: TP-3 STA 110+00 0-2.5'
Lab Sample ID: 500-247366-3

Date Collected: 03/12/24 09:23
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 85.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<26	*+	66	26	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Styrene	<26		66	26	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
tert-Butylbenzene	<26	*+	66	26	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Tetrachloroethene	<25		66	25	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Toluene	<9.7		17	9.7	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
trans-1,2-Dichloroethene	<23		66	23	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Trichloroethene	<11		33	11	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Trichlorofluoromethane	<28	*+	66	28	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Vinyl chloride	<17		66	17	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50
Xylenes, Total	<15		33	15	ug/Kg	☼	03/12/24 09:23	03/15/24 18:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*75 - 126*	*03/12/24 09:23*	*03/15/24 18:11*	*50*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*	*03/12/24 09:23*	*03/15/24 18:11*	*50*
Dibromofluoromethane (Surr)	*110*		*75 - 120*	*03/12/24 09:23*	*03/15/24 18:11*	*50*
Toluene-d8 (Surr)	*104*		*75 - 120*	*03/12/24 09:23*	*03/15/24 18:11*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<13		150	13	ug/Kg	☼	03/22/24 07:54	03/25/24 20:48	2
2-Methylnaphthalene	<15		150	15	ug/Kg	☼	03/22/24 07:54	03/25/24 20:48	2
Acenaphthene	<15		75	15	ug/Kg	☼	03/22/24 07:54	03/25/24 20:48	2
Acenaphthylene	<13		75	13	ug/Kg	☼	03/22/24 07:54	03/25/24 20:48	2
Anthracene	<15		75	15	ug/Kg	☼	03/22/24 07:54	03/25/24 20:48	2
Benzo[a]anthracene	**46**	**J**	75	16	ug/Kg	☼	03/22/24 07:54	03/25/24 20:48	2
Benzo[a]pyrene	**100**		75	73	ug/Kg	☼	03/22/24 07:54	03/25/24 20:48	2
Benzo[b]fluoranthene	<72		75	72	ug/Kg	☼	03/22/24 07:54	03/25/24 20:48	2
Benzo[g,h,i]perylene	**96**		75	16	ug/Kg	☼	03/22/24 07:54	03/25/24 20:48	2
Benzo[k]fluoranthene	<29		75	29	ug/Kg	☼	03/22/24 07:54	03/25/24 20:48	2
Chrysene	**29**	**J**	75	20	ug/Kg	☼	03/22/24 07:54	03/25/24 20:48	2
Dibenz(a,h)anthracene	<75		75	75	ug/Kg	☼	03/22/24 07:54	03/25/24 20:48	2
Fluoranthene	**57**	**J**	75	18	ug/Kg	☼	03/22/24 07:54	03/25/24 20:48	2
Fluorene	<22		75	22	ug/Kg	☼	03/22/24 07:54	03/25/24 20:48	2
Indeno[1,2,3-cd]pyrene	<73		75	73	ug/Kg	☼	03/22/24 07:54	03/25/24 20:48	2
Naphthalene	<14		75	14	ug/Kg	☼	03/22/24 07:54	03/25/24 20:48	2
Phenanthrene	**24**	**J**	75	16	ug/Kg	☼	03/22/24 07:54	03/25/24 20:48	2
Pyrene	**46**	**J**	75	21	ug/Kg	☼	03/22/24 07:54	03/25/24 20:48	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*	*03/22/24 07:54*	*03/25/24 20:48*	*2*
2-Fluorobiphenyl (Surr)	*61*		*43 - 145*	*03/22/24 07:54*	*03/25/24 20:48*	*2*
Terphenyl-d14 (Surr)	*67*		*42 - 157*	*03/22/24 07:54*	*03/25/24 20:48*	*2*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.6**		1.1	0.39	mg/Kg	☼	03/20/24 10:21	03/27/24 21:29	1
Barium	**65**	**B**	1.1	0.13	mg/Kg	☼	03/20/24 10:21	03/27/24 21:29	1
Cadmium	**0.29**	**B**	0.23	0.041	mg/Kg	☼	03/20/24 10:21	03/27/24 21:29	1
Chromium	**22**		1.1	0.56	mg/Kg	☼	03/20/24 10:21	03/27/24 21:29	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-3 STA 110+00 0-2.5'
Lab Sample ID: 500-247366-3
Date Collected: 03/12/24 09:23
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 85.4

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**18**		0.56	0.26	mg/Kg	☼	03/20/24 10:21	03/27/24 21:29	1
Selenium	<0.66		1.1	0.66	mg/Kg	☼	03/20/24 10:21	03/27/24 21:29	1
Silver	<0.15		0.56	0.15	mg/Kg	☼	03/20/24 10:21	03/27/24 21:29	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.018	0.0095	mg/Kg	☼	03/26/24 16:40	03/27/24 07:03	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-4 STA 114+00 0-1.5'
Lab Sample ID: 500-247366-4
Date Collected: 03/12/24 09:35
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 88.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		63	29	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
1,1,1-Trichloroethane	<24		63	24	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
1,1,2,2-Tetrachloroethane	<25		63	25	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
1,1,2-Trichloroethane	<22		63	22	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
1,1-Dichloroethane	<26		63	26	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
1,1-Dichloroethene	<25		63	25	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
1,1-Dichloropropene	<19	*+	63	19	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
1,2,3-Trichlorobenzene	<29		63	29	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
1,2,3-Trichloropropane	<26		130	26	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
1,2,4-Trichlorobenzene	<22		63	22	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
1,2,4-Trimethylbenzene	<23		63	23	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
1,2-Dichlorobenzene	<21		63	21	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
1,2-Dichloroethane	<25		63	25	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
1,2-Dichloropropane	<27		63	27	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
1,3,5-Trimethylbenzene	<24	*+	63	24	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
1,3-Dichlorobenzene	<25		63	25	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
1,3-Dichloropropane	<23		63	23	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
1,4-Dichlorobenzene	<23		63	23	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
2,2-Dichloropropane	<28		320	28	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
2-Chlorotoluene	<20		63	20	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
4-Chlorotoluene	<22		63	22	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
4-Isopropyltoluene	<23	*+	63	23	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Benzene	<9.2		16	9.2	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Bromobenzene	<22	*+	63	22	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Bromoform	<31		63	31	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Bromomethane	<50		190	50	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Carbon tetrachloride	<24		63	24	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Chlorobenzene	<24		63	24	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Chlorobromomethane	<27	*+	63	27	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Chlorodibromomethane	<31		63	31	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Chloroethane	<32		320	32	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Chloroform	**27**	**J *+**	130	23	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Chloromethane	<20		320	20	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
cis-1,2-Dichloroethene	<26		63	26	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
cis-1,3-Dichloropropene	<26		63	26	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Dibromomethane	<17		63	17	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Dichlorobromomethane	<23		63	23	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Dichlorodifluoromethane	<43		190	43	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Ethylbenzene	<12		16	12	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Ethylene Dibromide	<24		63	24	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Hexachlorobutadiene	<28		63	28	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Isopropyl ether	<17		63	17	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Isopropylbenzene	<24		63	24	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Methyl tert-butyl ether	<25		63	25	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Methylene Chloride	<100		320	100	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Naphthalene	<21		63	21	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
n-Butylbenzene	<24		63	24	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
N-Propylbenzene	<26		63	26	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50

Client Sample ID: TP-4 STA 114+00 0-1.5'
Lab Sample ID: 500-247366-4

Date Collected: 03/12/24 09:35
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 88.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<25	*+	63	25	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Styrene	<24		63	24	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
tert-Butylbenzene	<25	*+	63	25	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Tetrachloroethene	<23		63	23	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Toluene	<9.3		16	9.3	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
trans-1,2-Dichloroethene	<22		63	22	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
trans-1,3-Dichloropropene	<23		63	23	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Trichloroethene	<10		32	10	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Trichlorofluoromethane	<27	*+	63	27	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Vinyl chloride	<17		63	17	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50
Xylenes, Total	<14		32	14	ug/Kg	☼	03/12/24 09:35	03/15/24 18:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*75 - 126*	*03/12/24 09:35*	*03/15/24 18:35*	*50*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*03/12/24 09:35*	*03/15/24 18:35*	*50*
Dibromofluoromethane (Surr)	*109*		*75 - 120*	*03/12/24 09:35*	*03/15/24 18:35*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*03/12/24 09:35*	*03/15/24 18:35*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<6.6		75	6.6	ug/Kg	☼	03/22/24 07:54	03/25/24 15:25	1
2-Methylnaphthalene	<7.4		75	7.4	ug/Kg	☼	03/22/24 07:54	03/25/24 15:25	1
Acenaphthene	<7.5		37	7.5	ug/Kg	☼	03/22/24 07:54	03/25/24 15:25	1
Acenaphthylene	<6.3		37	6.3	ug/Kg	☼	03/22/24 07:54	03/25/24 15:25	1
Anthracene	<7.6		37	7.6	ug/Kg	☼	03/22/24 07:54	03/25/24 15:25	1
Benzo[a]anthracene	**30**	**J**	37	7.9	ug/Kg	☼	03/22/24 07:54	03/25/24 15:25	1
Benzo[a]pyrene	**55**		37	36	ug/Kg	☼	03/22/24 07:54	03/25/24 15:25	1
Benzo[b]fluoranthene	**35**	**J**	37	35	ug/Kg	☼	03/22/24 07:54	03/25/24 15:25	1
Benzo[g,h,i]perylene	**51**		37	8.0	ug/Kg	☼	03/22/24 07:54	03/25/24 15:25	1
Benzo[k]fluoranthene	<14		37	14	ug/Kg	☼	03/22/24 07:54	03/25/24 15:25	1
Chrysene	**26**	**J**	37	9.8	ug/Kg	☼	03/22/24 07:54	03/25/24 15:25	1
Dibenz(a,h)anthracene	<37		37	37	ug/Kg	☼	03/22/24 07:54	03/25/24 15:25	1
Fluoranthene	**48**		37	8.6	ug/Kg	☼	03/22/24 07:54	03/25/24 15:25	1
Fluorene	<11		37	11	ug/Kg	☼	03/22/24 07:54	03/25/24 15:25	1
Indeno[1,2,3-cd]pyrene	**37**		37	36	ug/Kg	☼	03/22/24 07:54	03/25/24 15:25	1
Naphthalene	<6.7		37	6.7	ug/Kg	☼	03/22/24 07:54	03/25/24 15:25	1
Phenanthrene	**19**	**J**	37	8.1	ug/Kg	☼	03/22/24 07:54	03/25/24 15:25	1
Pyrene	**44**		37	10	ug/Kg	☼	03/22/24 07:54	03/25/24 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*54*		*37 - 147*	*03/22/24 07:54*	*03/25/24 15:25*	*1*
2-Fluorobiphenyl (Surr)	*50*		*43 - 145*	*03/22/24 07:54*	*03/25/24 15:25*	*1*
Terphenyl-d14 (Surr)	*59*		*42 - 157*	*03/22/24 07:54*	*03/25/24 15:25*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.6**		1.1	0.37	mg/Kg	☼	03/20/24 10:21	03/27/24 21:33	1
Barium	**53**	**B**	1.1	0.12	mg/Kg	☼	03/20/24 10:21	03/27/24 21:33	1
Cadmium	**0.17**	**J B**	0.21	0.039	mg/Kg	☼	03/20/24 10:21	03/27/24 21:33	1
Chromium	**19**		1.1	0.53	mg/Kg	☼	03/20/24 10:21	03/27/24 21:33	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-4 STA 114+00 0-1.5'
Lab Sample ID: 500-247366-4
Date Collected: 03/12/24 09:35
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 88.2

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**54**		0.54	0.25	mg/Kg	☼	03/20/24 10:21	03/27/24 21:33	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	03/20/24 10:21	03/27/24 21:33	1
Silver	<0.14		0.54	0.14	mg/Kg	☼	03/20/24 10:21	03/27/24 21:33	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**J**	0.018	0.0097	mg/Kg	☼	03/26/24 16:40	03/27/24 07:04	1

Client Sample ID: TP-5 STA 118+00 0-2'
Lab Sample ID: 500-247366-5

Date Collected: 03/12/24 09:50
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 90.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<28		61	28	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
1,1,1-Trichloroethane	<23		61	23	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
1,1,2,2-Tetrachloroethane	<24		61	24	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
1,1,2-Trichloroethane	<22		61	22	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
1,1-Dichloroethane	<25		61	25	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
1,1-Dichloroethene	<24		61	24	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
1,1-Dichloropropene	<18	*+	61	18	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
1,2,3-Trichlorobenzene	<28		61	28	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
1,2,4-Trichlorobenzene	<21		61	21	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
1,2,4-Trimethylbenzene	<22		61	22	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
1,2-Dibromo-3-Chloropropane	<120		310	120	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
1,2-Dichlorobenzene	<20		61	20	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
1,2-Dichloroethane	<24		61	24	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
1,2-Dichloropropane	<26		61	26	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
1,3,5-Trimethylbenzene	<23	*+	61	23	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
1,3-Dichlorobenzene	<24		61	24	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
1,3-Dichloropropane	<22		61	22	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
1,4-Dichlorobenzene	<22		61	22	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
2,2-Dichloropropane	<27		310	27	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
2-Chlorotoluene	<19		61	19	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
4-Chlorotoluene	<21		61	21	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
4-Isopropyltoluene	<22	*+	61	22	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Benzene	<8.9		15	8.9	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Bromobenzene	<22	*+	61	22	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Bromoform	<30		61	30	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Bromomethane	<49		180	49	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Carbon tetrachloride	<23		61	23	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Chlorobenzene	<24		61	24	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Chlorobromomethane	<26	*+	61	26	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Chlorodibromomethane	<30		61	30	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Chloroethane	<31		310	31	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Chloroform	**35**	**J *+**	120	23	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Chloromethane	<20		310	20	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
cis-1,2-Dichloroethene	<25		61	25	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
cis-1,3-Dichloropropene	<25		61	25	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Dibromomethane	<17		61	17	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Dichlorobromomethane	<23		61	23	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Dichlorodifluoromethane	<41		180	41	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Ethylbenzene	<11		15	11	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Ethylene Dibromide	<24		61	24	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Hexachlorobutadiene	<27		61	27	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Isopropyl ether	<17		61	17	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Isopropylbenzene	<23		61	23	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Methyl tert-butyl ether	<24		61	24	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Methylene Chloride	<100		310	100	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Naphthalene	<20		61	20	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
n-Butylbenzene	<24		61	24	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
N-Propylbenzene	<25		61	25	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50

Client Sample ID: TP-5 STA 118+00 0-2'
Lab Sample ID: 500-247366-5

Date Collected: 03/12/24 09:50
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 90.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<24	*+	61	24	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Styrene	<24		61	24	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
tert-Butylbenzene	<24	*+	61	24	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Tetrachloroethene	<23		61	23	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Toluene	<9.0		15	9.0	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
trans-1,2-Dichloroethene	<21		61	21	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
trans-1,3-Dichloropropene	<22		61	22	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Trichloroethene	<10		31	10	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Trichlorofluoromethane	<26	*+	61	26	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Vinyl chloride	<16		61	16	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50
Xylenes, Total	<13		31	13	ug/Kg	☼	03/12/24 09:50	03/15/24 19:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*	*03/12/24 09:50*	*03/15/24 19:00*	*50*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*03/12/24 09:50*	*03/15/24 19:00*	*50*
Dibromofluoromethane (Surr)	*103*		*75 - 120*	*03/12/24 09:50*	*03/15/24 19:00*	*50*
Toluene-d8 (Surr)	*108*		*75 - 120*	*03/12/24 09:50*	*03/15/24 19:00*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<13		150	13	ug/Kg	☼	03/22/24 07:54	03/25/24 19:08	2
2-Methylnaphthalene	<15		150	15	ug/Kg	☼	03/22/24 07:54	03/25/24 19:08	2
Acenaphthene	<15		73	15	ug/Kg	☼	03/22/24 07:54	03/25/24 19:08	2
Acenaphthylene	<13		73	13	ug/Kg	☼	03/22/24 07:54	03/25/24 19:08	2
Anthracene	**62**	**J**	73	15	ug/Kg	☼	03/22/24 07:54	03/25/24 19:08	2
Benzo[a]anthracene	**180**		73	16	ug/Kg	☼	03/22/24 07:54	03/25/24 19:08	2
Benzo[a]pyrene	**230**		73	71	ug/Kg	☼	03/22/24 07:54	03/25/24 19:08	2
Benzo[b]fluoranthene	**270**		73	70	ug/Kg	☼	03/22/24 07:54	03/25/24 19:08	2
Benzo[g,h,i]perylene	**200**		73	16	ug/Kg	☼	03/22/24 07:54	03/25/24 19:08	2
Benzo[k]fluoranthene	**92**		73	28	ug/Kg	☼	03/22/24 07:54	03/25/24 19:08	2
Chrysene	**220**		73	19	ug/Kg	☼	03/22/24 07:54	03/25/24 19:08	2
Dibenz(a,h)anthracene	<73		73	73	ug/Kg	☼	03/22/24 07:54	03/25/24 19:08	2
Fluoranthene	**460**		73	17	ug/Kg	☼	03/22/24 07:54	03/25/24 19:08	2
Fluorene	<22		73	22	ug/Kg	☼	03/22/24 07:54	03/25/24 19:08	2
Indeno[1,2,3-cd]pyrene	**210**		73	72	ug/Kg	☼	03/22/24 07:54	03/25/24 19:08	2
Naphthalene	<13		73	13	ug/Kg	☼	03/22/24 07:54	03/25/24 19:08	2
Phenanthrene	**210**		73	16	ug/Kg	☼	03/22/24 07:54	03/25/24 19:08	2
Pyrene	**380**		73	20	ug/Kg	☼	03/22/24 07:54	03/25/24 19:08	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*63*		*37 - 147*	*03/22/24 07:54*	*03/25/24 19:08*	*2*
2-Fluorobiphenyl (Surr)	*62*		*43 - 145*	*03/22/24 07:54*	*03/25/24 19:08*	*2*
Terphenyl-d14 (Surr)	*74*		*42 - 157*	*03/22/24 07:54*	*03/25/24 19:08*	*2*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.7**		1.1	0.37	mg/Kg	☼	03/20/24 10:21	03/27/24 21:47	1
Barium	**39**	**B**	1.1	0.12	mg/Kg	☼	03/20/24 10:21	03/27/24 21:47	1
Cadmium	**0.18**	**J B**	0.22	0.039	mg/Kg	☼	03/20/24 10:21	03/27/24 21:47	1
Chromium	**13**		1.1	0.54	mg/Kg	☼	03/20/24 10:21	03/27/24 21:47	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-5 STA 118+00 0-2'
Lab Sample ID: 500-247366-5
Date Collected: 03/12/24 09:50
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 90.0

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**120**		0.54	0.25	mg/Kg	☼	03/20/24 10:21	03/27/24 21:47	1
Selenium	<0.64		1.1	0.64	mg/Kg	☼	03/20/24 10:21	03/27/24 21:47	1
Silver	<0.14		0.54	0.14	mg/Kg	☼	03/20/24 10:21	03/27/24 21:47	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0088		0.017	0.0088	mg/Kg	☼	03/26/24 16:40	03/27/24 07:06	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-6 STA 122+00 0-1.5'
Lab Sample ID: 500-247366-6
Date Collected: 03/12/24 09:55
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 86.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		65	30	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
1,1,1-Trichloroethane	<25		65	25	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
1,1,2,2-Tetrachloroethane	<26		65	26	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
1,1,2-Trichloroethane	<23		65	23	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
1,1-Dichloroethane	<27		65	27	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
1,1-Dichloroethene	<25		65	25	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
1,1-Dichloropropene	<19	*+	65	19	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
1,2,3-Trichlorobenzene	<30		65	30	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
1,2,3-Trichloropropane	<27		130	27	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
1,2,4-Trichlorobenzene	<22		65	22	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
1,2,4-Trimethylbenzene	<23		65	23	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
1,2-Dichlorobenzene	<22		65	22	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
1,2-Dichloroethane	<25		65	25	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
1,2-Dichloropropane	<28		65	28	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
1,3,5-Trimethylbenzene	<25	*+	65	25	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
1,3-Dichlorobenzene	<26		65	26	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
1,3-Dichloropropane	<23		65	23	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
1,4-Dichlorobenzene	<24		65	24	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
2,2-Dichloropropane	<29		320	29	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
2-Chlorotoluene	<20		65	20	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
4-Chlorotoluene	<23		65	23	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
4-Isopropyltoluene	<23	*+	65	23	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Benzene	<9.5		16	9.5	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Bromobenzene	<23	*+	65	23	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Bromoform	<31		65	31	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Bromomethane	<52		190	52	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Carbon tetrachloride	<25		65	25	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Chlorobenzene	<25		65	25	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Chlorobromomethane	<28	*+	65	28	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Chlorodibromomethane	<32		65	32	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Chloroethane	<33		320	33	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Chloroform	**48**	**J *+**	130	24	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Chloromethane	<21		320	21	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
cis-1,2-Dichloroethene	<26		65	26	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
cis-1,3-Dichloropropene	<27		65	27	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Dibromomethane	<18		65	18	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Dichlorobromomethane	<24		65	24	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Dichlorodifluoromethane	<44		190	44	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Ethylbenzene	<12		16	12	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Ethylene Dibromide	<25		65	25	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Hexachlorobutadiene	<29		65	29	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Isopropyl ether	<18		65	18	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Isopropylbenzene	<25		65	25	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Methyl tert-butyl ether	<26		65	26	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Methylene Chloride	<110		320	110	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Naphthalene	<22		65	22	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
n-Butylbenzene	<25		65	25	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
N-Propylbenzene	<27		65	27	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-6 STA 122+00 0-1.5'
Lab Sample ID: 500-247366-6
Date Collected: 03/12/24 09:55
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 86.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<26	*+	65	26	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Styrene	<25		65	25	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
tert-Butylbenzene	<26	*+	65	26	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Tetrachloroethene	<24		65	24	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Toluene	<9.5		16	9.5	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
trans-1,2-Dichloroethene	<23		65	23	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
trans-1,3-Dichloropropene	<23		65	23	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Trichloroethene	<11		32	11	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Trichlorofluoromethane	<28	*+	65	28	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Vinyl chloride	<17		65	17	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50
Xylenes, Total	<14		32	14	ug/Kg	☼	03/12/24 09:55	03/15/24 19:24	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 126*	*03/12/24 09:55*	*03/15/24 19:24*	*50*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*	*03/12/24 09:55*	*03/15/24 19:24*	*50*
Dibromofluoromethane (Surr)	*109*		*75 - 120*	*03/12/24 09:55*	*03/15/24 19:24*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*03/12/24 09:55*	*03/15/24 19:24*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<13		150	13	ug/Kg	☼	03/22/24 07:54	03/25/24 19:33	2
2-Methylnaphthalene	<15		150	15	ug/Kg	☼	03/22/24 07:54	03/25/24 19:33	2
Acenaphthene	<15		74	15	ug/Kg	☼	03/22/24 07:54	03/25/24 19:33	2
Acenaphthylene	<13		74	13	ug/Kg	☼	03/22/24 07:54	03/25/24 19:33	2
Anthracene	**53**	**J**	74	15	ug/Kg	☼	03/22/24 07:54	03/25/24 19:33	2
Benzo[a]anthracene	**180**		74	16	ug/Kg	☼	03/22/24 07:54	03/25/24 19:33	2
Benzo[a]pyrene	**230**		74	72	ug/Kg	☼	03/22/24 07:54	03/25/24 19:33	2
Benzo[b]fluoranthene	**220**		74	71	ug/Kg	☼	03/22/24 07:54	03/25/24 19:33	2
Benzo[g,h,i]perylene	**190**		74	16	ug/Kg	☼	03/22/24 07:54	03/25/24 19:33	2
Benzo[k]fluoranthene	**90**		74	28	ug/Kg	☼	03/22/24 07:54	03/25/24 19:33	2
Chrysene	**180**		74	20	ug/Kg	☼	03/22/24 07:54	03/25/24 19:33	2
Dibenz(a,h)anthracene	<74		74	74	ug/Kg	☼	03/22/24 07:54	03/25/24 19:33	2
Fluoranthene	**420**		74	17	ug/Kg	☼	03/22/24 07:54	03/25/24 19:33	2
Fluorene	<22		74	22	ug/Kg	☼	03/22/24 07:54	03/25/24 19:33	2
Indeno[1,2,3-cd]pyrene	**200**		74	73	ug/Kg	☼	03/22/24 07:54	03/25/24 19:33	2
Naphthalene	<14		74	14	ug/Kg	☼	03/22/24 07:54	03/25/24 19:33	2
Phenanthrene	**220**		74	16	ug/Kg	☼	03/22/24 07:54	03/25/24 19:33	2
Pyrene	**350**		74	20	ug/Kg	☼	03/22/24 07:54	03/25/24 19:33	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*57*		*37 - 147*	*03/22/24 07:54*	*03/25/24 19:33*	*2*
2-Fluorobiphenyl (Surr)	*62*		*43 - 145*	*03/22/24 07:54*	*03/25/24 19:33*	*2*
Terphenyl-d14 (Surr)	*82*		*42 - 157*	*03/22/24 07:54*	*03/25/24 19:33*	*2*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.0**		0.98	0.33	mg/Kg	☼	03/20/24 10:21	03/27/24 21:51	1
Barium	**72**	**B**	0.98	0.11	mg/Kg	☼	03/20/24 10:21	03/27/24 21:51	1
Cadmium	**0.33**	**B**	0.20	0.035	mg/Kg	☼	03/20/24 10:21	03/27/24 21:51	1
Chromium	**22**		0.98	0.48	mg/Kg	☼	03/20/24 10:21	03/27/24 21:51	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-6 STA 122+00 0-1.5'
Lab Sample ID: 500-247366-6
Date Collected: 03/12/24 09:55
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 86.9

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**55**		0.49	0.23	mg/Kg	☼	03/20/24 10:21	03/27/24 21:51	1
Selenium	<0.57		0.98	0.57	mg/Kg	☼	03/20/24 10:21	03/27/24 21:51	1
Silver	<0.13		0.49	0.13	mg/Kg	☼	03/20/24 10:21	03/27/24 21:51	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.018	0.0095	mg/Kg	☼	03/26/24 16:40	03/27/24 07:08	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-7 STA 126+00 0-1.5'
Lab Sample ID: 500-247366-7
Date Collected: 03/12/24 10:05
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 87.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		64	30	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
1,1,1-Trichloroethane	<24		64	24	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
1,1,2,2-Tetrachloroethane	<25		64	25	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
1,1,2-Trichloroethane	<23		64	23	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
1,1-Dichloroethane	<26		64	26	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
1,1-Dichloroethene	<25		64	25	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
1,1-Dichloropropene	<19	*+	64	19	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
1,2,3-Trichlorobenzene	<29		64	29	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
1,2,3-Trichloropropane	<27		130	27	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
1,2,4-Trichlorobenzene	<22		64	22	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
1,2,4-Trimethylbenzene	<23		64	23	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
1,2-Dichlorobenzene	<21		64	21	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
1,2-Dichloroethane	<25		64	25	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
1,2-Dichloropropane	<27		64	27	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
1,3,5-Trimethylbenzene	<24	*+	64	24	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
1,3-Dichlorobenzene	<26		64	26	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
1,3-Dichloropropane	<23		64	23	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
1,4-Dichlorobenzene	<23		64	23	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
2,2-Dichloropropane	<28		320	28	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
2-Chlorotoluene	<20		64	20	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
4-Chlorotoluene	<22		64	22	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
4-Isopropyltoluene	<23	*+	64	23	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Benzene	<9.4		16	9.4	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Bromobenzene	<23	*+	64	23	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Bromoform	<31		64	31	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Bromomethane	<51		190	51	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Carbon tetrachloride	<25		64	25	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Chlorobenzene	<25		64	25	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Chlorobromomethane	<27	*+	64	27	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Chlorodibromomethane	<31		64	31	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Chloroethane	<32		320	32	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Chloroform	**26**	**J *+**	130	24	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Chloromethane	<20		320	20	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
cis-1,2-Dichloroethene	<26		64	26	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
cis-1,3-Dichloropropene	<27		64	27	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Dibromomethane	<17		64	17	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Dichlorobromomethane	<24		64	24	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Dichlorodifluoromethane	<43		190	43	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Ethylbenzene	<12		16	12	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Ethylene Dibromide	<25		64	25	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Hexachlorobutadiene	<29		64	29	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Isopropyl ether	<18		64	18	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Isopropylbenzene	<25		64	25	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Methyl tert-butyl ether	<25		64	25	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Methylene Chloride	<100		320	100	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Naphthalene	<21		64	21	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
n-Butylbenzene	<25		64	25	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
N-Propylbenzene	<27		64	27	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50

Client Sample ID: TP-7 STA 126+00 0-1.5'
Lab Sample ID: 500-247366-7

Date Collected: 03/12/24 10:05
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 87.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<25	*+	64	25	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Styrene	<25		64	25	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
tert-Butylbenzene	<25	*+	64	25	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Tetrachloroethene	<24		64	24	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Toluene	<9.4		16	9.4	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
trans-1,2-Dichloroethene	<22		64	22	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
trans-1,3-Dichloropropene	<23		64	23	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Trichloroethene	<11		32	11	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Trichlorofluoromethane	<27	*+	64	27	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Vinyl chloride	<17		64	17	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50
Xylenes, Total	<14		32	14	ug/Kg	☼	03/12/24 10:05	03/15/24 19:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*75 - 126*	*03/12/24 10:05*	*03/15/24 19:49*	*50*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*03/12/24 10:05*	*03/15/24 19:49*	*50*
Dibromofluoromethane (Surr)	*110*		*75 - 120*	*03/12/24 10:05*	*03/15/24 19:49*	*50*
Toluene-d8 (Surr)	*89*		*75 - 120*	*03/12/24 10:05*	*03/15/24 19:49*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<6.4		73	6.4	ug/Kg	☼	03/22/24 07:54	03/25/24 16:15	1
2-Methylnaphthalene	<7.2		73	7.2	ug/Kg	☼	03/22/24 07:54	03/25/24 16:15	1
Acenaphthene	<7.3		36	7.3	ug/Kg	☼	03/22/24 07:54	03/25/24 16:15	1
Acenaphthylene	<6.1		36	6.1	ug/Kg	☼	03/22/24 07:54	03/25/24 16:15	1
Anthracene	**9.3**	**J**	36	7.3	ug/Kg	☼	03/22/24 07:54	03/25/24 16:15	1
Benzo[a]anthracene	**44**		36	7.6	ug/Kg	☼	03/22/24 07:54	03/25/24 16:15	1
Benzo[a]pyrene	**73**		36	35	ug/Kg	☼	03/22/24 07:54	03/25/24 16:15	1
Benzo[b]fluoranthene	**62**		36	34	ug/Kg	☼	03/22/24 07:54	03/25/24 16:15	1
Benzo[g,h,i]perylene	**66**		36	7.8	ug/Kg	☼	03/22/24 07:54	03/25/24 16:15	1
Benzo[k]fluoranthene	**21**	**J**	36	14	ug/Kg	☼	03/22/24 07:54	03/25/24 16:15	1
Chrysene	**48**		36	9.5	ug/Kg	☼	03/22/24 07:54	03/25/24 16:15	1
Dibenz(a,h)anthracene	<36		36	36	ug/Kg	☼	03/22/24 07:54	03/25/24 16:15	1
Fluoranthene	**97**		36	8.4	ug/Kg	☼	03/22/24 07:54	03/25/24 16:15	1
Fluorene	<11		36	11	ug/Kg	☼	03/22/24 07:54	03/25/24 16:15	1
Indeno[1,2,3-cd]pyrene	**57**		36	35	ug/Kg	☼	03/22/24 07:54	03/25/24 16:15	1
Naphthalene	<6.5		36	6.5	ug/Kg	☼	03/22/24 07:54	03/25/24 16:15	1
Phenanthrene	**37**		36	7.8	ug/Kg	☼	03/22/24 07:54	03/25/24 16:15	1
Pyrene	**78**		36	9.8	ug/Kg	☼	03/22/24 07:54	03/25/24 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*50*		*37 - 147*	*03/22/24 07:54*	*03/25/24 16:15*	*1*
2-Fluorobiphenyl (Surr)	*50*		*43 - 145*	*03/22/24 07:54*	*03/25/24 16:15*	*1*
Terphenyl-d14 (Surr)	*71*		*42 - 157*	*03/22/24 07:54*	*03/25/24 16:15*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.0**		1.1	0.37	mg/Kg	☼	03/20/24 10:21	03/27/24 21:55	1
Barium	**31**	**B**	1.1	0.12	mg/Kg	☼	03/20/24 10:21	03/27/24 21:55	1
Cadmium	**0.12**	**J B**	0.22	0.039	mg/Kg	☼	03/20/24 10:21	03/27/24 21:55	1
Chromium	**14**		1.1	0.54	mg/Kg	☼	03/20/24 10:21	03/27/24 21:55	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-7 STA 126+00 0-1.5'
Lab Sample ID: 500-247366-7
Date Collected: 03/12/24 10:05
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 87.9

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19		0.54	0.25	mg/Kg	☼	03/20/24 10:21	03/27/24 21:55	1
Selenium	<0.64		1.1	0.64	mg/Kg	☼	03/20/24 10:21	03/27/24 21:55	1
Silver	<0.14		0.54	0.14	mg/Kg	☼	03/20/24 10:21	03/27/24 21:55	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0094		0.018	0.0094	mg/Kg	☼	03/26/24 16:40	03/27/24 07:09	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-8 STA 130+00 0-1.5'
Lab Sample ID: 500-247366-8
Date Collected: 03/12/24 10:15
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 87.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		65	30	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
1,1,1-Trichloroethane	<25		65	25	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
1,1,2,2-Tetrachloroethane	<26		65	26	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
1,1,2-Trichloroethane	<23		65	23	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
1,1-Dichloroethane	<27		65	27	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
1,1-Dichloroethene	<25		65	25	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
1,1-Dichloropropene	<19	*+	65	19	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
1,2,3-Trichlorobenzene	<30		65	30	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
1,2,3-Trichloropropane	<27		130	27	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
1,2,4-Trichlorobenzene	<22		65	22	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
1,2,4-Trimethylbenzene	<23		65	23	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
1,2-Dichlorobenzene	<22		65	22	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
1,2-Dichloroethane	<25		65	25	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
1,2-Dichloropropane	<28		65	28	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
1,3,5-Trimethylbenzene	<25	*+	65	25	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
1,3-Dichlorobenzene	<26		65	26	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
1,3-Dichloropropane	<23		65	23	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
1,4-Dichlorobenzene	<24		65	24	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
2,2-Dichloropropane	<29		320	29	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
2-Chlorotoluene	<20		65	20	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
4-Chlorotoluene	<23		65	23	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
4-Isopropyltoluene	<23	*+	65	23	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Benzene	<9.5		16	9.5	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Bromobenzene	<23	*+	65	23	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Bromoform	<31		65	31	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Bromomethane	<52		190	52	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Carbon tetrachloride	<25		65	25	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Chlorobenzene	<25		65	25	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Chlorobromomethane	<28	*+	65	28	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Chlorodibromomethane	<32		65	32	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Chloroethane	<33		320	33	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Chloroform	<24	*+	130	24	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Chloromethane	<21		320	21	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
cis-1,2-Dichloroethene	<26		65	26	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
cis-1,3-Dichloropropene	<27		65	27	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Dibromomethane	<17		65	17	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Dichlorobromomethane	<24		65	24	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Dichlorodifluoromethane	<44		190	44	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Ethylbenzene	<12		16	12	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Ethylene Dibromide	<25		65	25	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Hexachlorobutadiene	<29		65	29	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Isopropyl ether	<18		65	18	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Isopropylbenzene	<25		65	25	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Methyl tert-butyl ether	<26		65	26	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Methylene Chloride	<110		320	110	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Naphthalene	<22		65	22	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
n-Butylbenzene	<25		65	25	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
N-Propylbenzene	<27		65	27	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50

Client Sample ID: TP-8 STA 130+00 0-1.5'
Lab Sample ID: 500-247366-8

Date Collected: 03/12/24 10:15
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 87.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<26	*+	65	26	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Styrene	<25		65	25	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
tert-Butylbenzene	<26	*+	65	26	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Tetrachloroethene	<24		65	24	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Toluene	<9.5		16	9.5	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
trans-1,2-Dichloroethene	<23		65	23	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
trans-1,3-Dichloropropene	<23		65	23	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Trichloroethene	<11		32	11	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Trichlorofluoromethane	<28	*+	65	28	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Vinyl chloride	<17		65	17	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50
Xylenes, Total	<14		32	14	ug/Kg	☼	03/12/24 11:05	03/15/24 20:13	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*	*03/12/24 11:05*	*03/15/24 20:13*	*50*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*	*03/12/24 11:05*	*03/15/24 20:13*	*50*
Dibromofluoromethane (Surr)	*111*		*75 - 120*	*03/12/24 11:05*	*03/15/24 20:13*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*03/12/24 11:05*	*03/15/24 20:13*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<13		150	13	ug/Kg	☼	03/22/24 07:54	03/25/24 19:58	2
2-Methylnaphthalene	<15		150	15	ug/Kg	☼	03/22/24 07:54	03/25/24 19:58	2
Acenaphthene	**44**	**J**	73	15	ug/Kg	☼	03/22/24 07:54	03/25/24 19:58	2
Acenaphthylene	**15**	**J**	73	13	ug/Kg	☼	03/22/24 07:54	03/25/24 19:58	2
Anthracene	**120**		73	15	ug/Kg	☼	03/22/24 07:54	03/25/24 19:58	2
Benzo[a]anthracene	**750**		73	16	ug/Kg	☼	03/22/24 07:54	03/25/24 19:58	2
Benzo[a]pyrene	**1000**		73	71	ug/Kg	☼	03/22/24 07:54	03/25/24 19:58	2
Benzo[b]fluoranthene	**1500**		73	70	ug/Kg	☼	03/22/24 07:54	03/25/24 19:58	2
Benzo[g,h,i]perylene	**930**		73	16	ug/Kg	☼	03/22/24 07:54	03/25/24 19:58	2
Benzo[k]fluoranthene	**660**		73	28	ug/Kg	☼	03/22/24 07:54	03/25/24 19:58	2
Chrysene	**1200**		73	19	ug/Kg	☼	03/22/24 07:54	03/25/24 19:58	2
Dibenz(a,h)anthracene	**230**		73	73	ug/Kg	☼	03/22/24 07:54	03/25/24 19:58	2
Fluoranthene	**2400**		73	17	ug/Kg	☼	03/22/24 07:54	03/25/24 19:58	2
Fluorene	**48**	**J**	73	22	ug/Kg	☼	03/22/24 07:54	03/25/24 19:58	2
Indeno[1,2,3-cd]pyrene	**1200**		73	72	ug/Kg	☼	03/22/24 07:54	03/25/24 19:58	2
Naphthalene	<13		73	13	ug/Kg	☼	03/22/24 07:54	03/25/24 19:58	2
Phenanthrene	**1000**		73	16	ug/Kg	☼	03/22/24 07:54	03/25/24 19:58	2
Pyrene	**1900**		73	20	ug/Kg	☼	03/22/24 07:54	03/25/24 19:58	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*74*		*37 - 147*	*03/22/24 07:54*	*03/25/24 19:58*	*2*
2-Fluorobiphenyl (Surr)	*67*		*43 - 145*	*03/22/24 07:54*	*03/25/24 19:58*	*2*
Terphenyl-d14 (Surr)	*75*		*42 - 157*	*03/22/24 07:54*	*03/25/24 19:58*	*2*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.4**		0.96	0.33	mg/Kg	☼	03/20/24 10:21	03/27/24 22:00	1
Barium	**24**	**B**	0.96	0.11	mg/Kg	☼	03/20/24 10:21	03/27/24 22:00	1
Cadmium	**0.21**	**B**	0.19	0.035	mg/Kg	☼	03/20/24 10:21	03/27/24 22:00	1
Chromium	**13**		0.96	0.48	mg/Kg	☼	03/20/24 10:21	03/27/24 22:00	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-8 STA 130+00 0-1.5'
Lab Sample ID: 500-247366-8
Date Collected: 03/12/24 10:15
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 87.4

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**14**		0.48	0.22	mg/Kg	☼	03/20/24 10:21	03/27/24 22:00	1
Selenium	<0.57		0.96	0.57	mg/Kg	☼	03/20/24 10:21	03/27/24 22:00	1
Silver	<0.12		0.48	0.12	mg/Kg	☼	03/20/24 10:21	03/27/24 22:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0097		0.018	0.0097	mg/Kg	☼	03/26/24 16:40	03/27/24 07:15	1

Client: Stantec Consulting Corporation
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Job ID: 500-247366-1

Client Sample ID: TP-9 STA 134+00 0-1.5'
Date Collected: 03/12/24 10:35
Date Received: 03/13/24 10:05

Lab Sample ID: 500-247366-9
Matrix: Solid
Percent Solids: 91.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<27		59	27	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
1,1,1-Trichloroethane	<23		59	23	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
1,1,2,2-Tetrachloroethane	<24		59	24	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
1,1,2-Trichloroethane	<21		59	21	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
1,1-Dichloroethane	<24		59	24	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
1,1-Dichloroethene	<23		59	23	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
1,1-Dichloropropene	<18	*+	59	18	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
1,2,3-Trichlorobenzene	<27		59	27	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
1,2,4-Trichlorobenzene	<20		59	20	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
1,2-Dichlorobenzene	<20		59	20	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
1,2-Dichloroethane	<23		59	23	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
1,2-Dichloropropane	<25		59	25	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
1,3,5-Trimethylbenzene	<23	*+	59	23	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
1,3-Dichlorobenzene	<24		59	24	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
1,3-Dichloropropane	<22		59	22	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
1,4-Dichlorobenzene	<22		59	22	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
2,2-Dichloropropane	<26		300	26	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
2-Chlorotoluene	<19		59	19	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
4-Chlorotoluene	<21		59	21	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
4-Isopropyltoluene	<22	*+	59	22	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Benzene	<8.7		15	8.7	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Bromobenzene	<21	*+	59	21	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Bromoform	<29		59	29	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Bromomethane	<47		180	47	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Carbon tetrachloride	<23		59	23	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Chlorobenzene	<23		59	23	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Chlorobromomethane	<25	*+	59	25	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Chlorodibromomethane	<29		59	29	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Chloroethane	<30		300	30	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Chloroform	**26**	**J *+**	120	22	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Chloromethane	<19		300	19	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
cis-1,2-Dichloroethene	<24		59	24	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
cis-1,3-Dichloropropene	<25		59	25	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Dibromomethane	<16		59	16	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Dichlorobromomethane	<22		59	22	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Dichlorodifluoromethane	<40		180	40	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Ethylbenzene	<11		15	11	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Ethylene Dibromide	<23		59	23	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Hexachlorobutadiene	<27		59	27	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Isopropyl ether	<16		59	16	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Isopropylbenzene	<23		59	23	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Methylene Chloride	<97		300	97	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Naphthalene	<20		59	20	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
n-Butylbenzene	<23		59	23	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
N-Propylbenzene	<25		59	25	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50

Client Sample ID: TP-9 STA 134+00 0-1.5'
Lab Sample ID: 500-247366-9

Date Collected: 03/12/24 10:35
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 91.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<24	*+	59	24	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Styrene	<23		59	23	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
tert-Butylbenzene	<24	*+	59	24	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Tetrachloroethene	<22		59	22	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Toluene	<8.7		15	8.7	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
trans-1,2-Dichloroethene	<21		59	21	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
trans-1,3-Dichloropropene	<22		59	22	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Trichloroethene	<9.8		30	9.8	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Trichlorofluoromethane	<25	*+	59	25	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Vinyl chloride	<16		59	16	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50
Xylenes, Total	<13		30	13	ug/Kg	☼	03/12/24 10:35	03/19/24 15:34	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*126*		*75 - 126*	*03/12/24 10:35*	*03/19/24 15:34*	*50*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*	*03/12/24 10:35*	*03/19/24 15:34*	*50*
Dibromofluoromethane (Surr)	*108*		*75 - 120*	*03/12/24 10:35*	*03/19/24 15:34*	*50*
Toluene-d8 (Surr)	*108*		*75 - 120*	*03/12/24 10:35*	*03/19/24 15:34*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<6.3		71	6.3	ug/Kg	☼	03/22/24 07:54	03/25/24 16:39	1
2-Methylnaphthalene	<7.1		71	7.1	ug/Kg	☼	03/22/24 07:54	03/25/24 16:39	1
Acenaphthene	<7.2		35	7.2	ug/Kg	☼	03/22/24 07:54	03/25/24 16:39	1
Acenaphthylene	<6.0		35	6.0	ug/Kg	☼	03/22/24 07:54	03/25/24 16:39	1
Anthracene	**19**	**J**	35	7.2	ug/Kg	☼	03/22/24 07:54	03/25/24 16:39	1
Benzo[a]anthracene	**110**		35	7.5	ug/Kg	☼	03/22/24 07:54	03/25/24 16:39	1
Benzo[a]pyrene	**140**		35	34	ug/Kg	☼	03/22/24 07:54	03/25/24 16:39	1
Benzo[b]fluoranthene	**180**		35	33	ug/Kg	☼	03/22/24 07:54	03/25/24 16:39	1
Benzo[g,h,i]perylene	**110**		35	7.6	ug/Kg	☼	03/22/24 07:54	03/25/24 16:39	1
Benzo[k]fluoranthene	**66**		35	13	ug/Kg	☼	03/22/24 07:54	03/25/24 16:39	1
Chrysene	**130**		35	9.3	ug/Kg	☼	03/22/24 07:54	03/25/24 16:39	1
Dibenz(a,h)anthracene	**41**		35	35	ug/Kg	☼	03/22/24 07:54	03/25/24 16:39	1
Fluoranthene	**240**		35	8.2	ug/Kg	☼	03/22/24 07:54	03/25/24 16:39	1
Fluorene	<10		35	10	ug/Kg	☼	03/22/24 07:54	03/25/24 16:39	1
Indeno[1,2,3-cd]pyrene	**130**		35	34	ug/Kg	☼	03/22/24 07:54	03/25/24 16:39	1
Naphthalene	<6.4		35	6.4	ug/Kg	☼	03/22/24 07:54	03/25/24 16:39	1
Phenanthrene	**97**		35	7.6	ug/Kg	☼	03/22/24 07:54	03/25/24 16:39	1
Pyrene	**210**		35	9.6	ug/Kg	☼	03/22/24 07:54	03/25/24 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*68*		*37 - 147*	*03/22/24 07:54*	*03/25/24 16:39*	*1*
2-Fluorobiphenyl (Surr)	*62*		*43 - 145*	*03/22/24 07:54*	*03/25/24 16:39*	*1*
Terphenyl-d14 (Surr)	*71*		*42 - 157*	*03/22/24 07:54*	*03/25/24 16:39*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.1**		1.0	0.36	mg/Kg	☼	03/20/24 10:21	03/27/24 22:04	1
Barium	**24**	**B**	1.0	0.12	mg/Kg	☼	03/20/24 10:21	03/27/24 22:04	1
Cadmium	**0.20**	**J B**	0.21	0.038	mg/Kg	☼	03/20/24 10:21	03/27/24 22:04	1
Chromium	**9.0**		1.0	0.52	mg/Kg	☼	03/20/24 10:21	03/27/24 22:04	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-9 STA 134+00 0-1.5'
Lab Sample ID: 500-247366-9
Date Collected: 03/12/24 10:35
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 91.0

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**35**		0.52	0.24	mg/Kg	☼	03/20/24 10:21	03/27/24 22:04	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	03/20/24 10:21	03/27/24 22:04	1
Silver	<0.13		0.52	0.13	mg/Kg	☼	03/20/24 10:21	03/27/24 22:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.014**	**J**	0.017	0.0091	mg/Kg	☼	03/26/24 16:40	03/27/24 07:17	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-10 STA 138+00 0-1.5'
Lab Sample ID: 500-247366-10
Date Collected: 03/12/24 10:45
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 87.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		65	30	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
1,1,1-Trichloroethane	<25		65	25	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
1,1,2,2-Tetrachloroethane	<26		65	26	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
1,1,2-Trichloroethane	<23		65	23	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
1,1-Dichloroethane	<27		65	27	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
1,1-Dichloroethene	<25		65	25	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
1,1-Dichloropropene	<19		65	19	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
1,2,3-Trichlorobenzene	<30		65	30	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
1,2,3-Trichloropropane	<27		130	27	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
1,2,4-Trichlorobenzene	<22		65	22	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
1,2,4-Trimethylbenzene	<23		65	23	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
1,2-Dichlorobenzene	<22		65	22	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
1,2-Dichloroethane	<26		65	26	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
1,2-Dichloropropane	<28		65	28	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
1,3,5-Trimethylbenzene	<25		65	25	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
1,3-Dichlorobenzene	<26		65	26	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
1,3-Dichloropropane	<24		65	24	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
1,4-Dichlorobenzene	<24		65	24	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
2,2-Dichloropropane	<29		330	29	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
2-Chlorotoluene	<20		65	20	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
4-Chlorotoluene	<23		65	23	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
4-Isopropyltoluene	<24		65	24	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Benzene	<9.5		16	9.5	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Bromobenzene	<23		65	23	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Bromoform	<32		65	32	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Bromomethane	<52		200	52	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Carbon tetrachloride	<25		65	25	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Chlorobenzene	<25		65	25	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Chlorobromomethane	<28		65	28	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Chlorodibromomethane	<32		65	32	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Chloroethane	<33		330	33	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Chloroform	<24		130	24	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Chloromethane	<21		330	21	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
cis-1,2-Dichloroethene	<27		65	27	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
cis-1,3-Dichloropropene	<27		65	27	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Dibromomethane	<18		65	18	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Dichlorobromomethane	<24		65	24	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Dichlorodifluoromethane	<44		200	44	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Ethylbenzene	<12		16	12	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Ethylene Dibromide	<25		65	25	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Hexachlorobutadiene	<29		65	29	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Isopropyl ether	<18		65	18	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Isopropylbenzene	<25		65	25	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Methyl tert-butyl ether	<26		65	26	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Methylene Chloride	<110		330	110	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Naphthalene	<22		65	22	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
n-Butylbenzene	<25		65	25	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
N-Propylbenzene	<27		65	27	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50

Client: Stantec Consulting Corporation
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Job ID: 500-247366-1

Client Sample ID: TP-10 STA 138+00 0-1.5'
Date Collected: 03/12/24 10:45
Date Received: 03/13/24 10:05

Lab Sample ID: 500-247366-10
Matrix: Solid
Percent Solids: 87.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<26		65	26	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Styrene	<25		65	25	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
tert-Butylbenzene	<26		65	26	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Tetrachloroethene	<24		65	24	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Toluene	<9.6		16	9.6	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
trans-1,2-Dichloroethene	<23		65	23	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
trans-1,3-Dichloropropene	<24		65	24	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Trichloroethene	<11		33	11	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Trichlorofluoromethane	<28		65	28	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Vinyl chloride	<17		65	17	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50
Xylenes, Total	<14		33	14	ug/Kg	☼	03/12/24 10:45	03/19/24 15:58	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*75 - 126*	*03/12/24 10:45*	*03/19/24 15:58*	*50*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*	*03/12/24 10:45*	*03/19/24 15:58*	*50*
Dibromofluoromethane (Surr)	*108*		*75 - 120*	*03/12/24 10:45*	*03/19/24 15:58*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*03/12/24 10:45*	*03/19/24 15:58*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<13		150	13	ug/Kg	☼	03/22/24 07:54	03/25/24 20:23	2
2-Methylnaphthalene	<15		150	15	ug/Kg	☼	03/22/24 07:54	03/25/24 20:23	2
Acenaphthene	**32**	**J**	74	15	ug/Kg	☼	03/22/24 07:54	03/25/24 20:23	2
Acenaphthylene	<13		74	13	ug/Kg	☼	03/22/24 07:54	03/25/24 20:23	2
Anthracene	**130**		74	15	ug/Kg	☼	03/22/24 07:54	03/25/24 20:23	2
Benzo[a]anthracene	**330**		74	16	ug/Kg	☼	03/22/24 07:54	03/25/24 20:23	2
Benzo[a]pyrene	**380**		74	72	ug/Kg	☼	03/22/24 07:54	03/25/24 20:23	2
Benzo[b]fluoranthene	**510**		74	71	ug/Kg	☼	03/22/24 07:54	03/25/24 20:23	2
Benzo[g,h,i]perylene	**350**		74	16	ug/Kg	☼	03/22/24 07:54	03/25/24 20:23	2
Benzo[k]fluoranthene	**170**		74	28	ug/Kg	☼	03/22/24 07:54	03/25/24 20:23	2
Chrysene	**410**		74	20	ug/Kg	☼	03/22/24 07:54	03/25/24 20:23	2
Dibenz(a,h)anthracene	**92**		74	74	ug/Kg	☼	03/22/24 07:54	03/25/24 20:23	2
Fluoranthene	**910**		74	17	ug/Kg	☼	03/22/24 07:54	03/25/24 20:23	2
Fluorene	**33**	**J**	74	22	ug/Kg	☼	03/22/24 07:54	03/25/24 20:23	2
Indeno[1,2,3-cd]pyrene	**370**		74	72	ug/Kg	☼	03/22/24 07:54	03/25/24 20:23	2
Naphthalene	<13		74	13	ug/Kg	☼	03/22/24 07:54	03/25/24 20:23	2
Phenanthrene	**490**		74	16	ug/Kg	☼	03/22/24 07:54	03/25/24 20:23	2
Pyrene	**760**		74	20	ug/Kg	☼	03/22/24 07:54	03/25/24 20:23	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*66*		*37 - 147*	*03/22/24 07:54*	*03/25/24 20:23*	*2*
2-Fluorobiphenyl (Surr)	*62*		*43 - 145*	*03/22/24 07:54*	*03/25/24 20:23*	*2*
Terphenyl-d14 (Surr)	*68*		*42 - 157*	*03/22/24 07:54*	*03/25/24 20:23*	*2*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.9**		1.1	0.39	mg/Kg	☼	03/20/24 10:21	03/27/24 22:08	1
Barium	**36**	**B**	1.1	0.13	mg/Kg	☼	03/20/24 10:21	03/27/24 22:08	1
Cadmium	**0.22**	**J B**	0.23	0.041	mg/Kg	☼	03/20/24 10:21	03/27/24 22:08	1
Chromium	**12**		1.1	0.57	mg/Kg	☼	03/20/24 10:21	03/27/24 22:08	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-10 STA 138+00 0-1.5'
Lab Sample ID: 500-247366-10
Date Collected: 03/12/24 10:45
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 87.0

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**49**		0.57	0.27	mg/Kg	☼	03/20/24 10:21	03/27/24 22:08	1
Selenium	<0.68		1.1	0.68	mg/Kg	☼	03/20/24 10:21	03/27/24 22:08	1
Silver	<0.15		0.57	0.15	mg/Kg	☼	03/20/24 10:21	03/27/24 22:08	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**		0.018	0.0095	mg/Kg	☼	03/26/24 16:40	03/27/24 07:18	1

Client: Stantec Consulting Corporation
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Job ID: 500-247366-1

Client Sample ID: TP-11 STA 141+00 0-1'
Date Collected: 03/12/24 10:50
Date Received: 03/13/24 10:05

Lab Sample ID: 500-247366-11
Matrix: Solid
Percent Solids: 84.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		69	32	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
1,1,1-Trichloroethane	<26		69	26	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
1,1,2,2-Tetrachloroethane	<27		69	27	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
1,1,2-Trichloroethane	<24		69	24	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
1,1-Dichloroethane	<28		69	28	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
1,1-Dichloroethene	<27		69	27	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
1,1-Dichloropropene	<21		69	21	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
1,2,3-Trichlorobenzene	<32		69	32	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
1,2,3-Trichloropropane	<29		140	29	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
1,2,4-Trichlorobenzene	<24		69	24	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
1,2,4-Trimethylbenzene	<25		69	25	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
1,2-Dibromo-3-Chloropropane	<140		340	140	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
1,2-Dichlorobenzene	<23		69	23	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
1,2-Dichloroethane	<27		69	27	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
1,2-Dichloropropane	<29		69	29	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
1,3,5-Trimethylbenzene	<26		69	26	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
1,3-Dichlorobenzene	<28		69	28	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
1,3-Dichloropropane	<25		69	25	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
1,4-Dichlorobenzene	<25		69	25	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
2,2-Dichloropropane	<31		340	31	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
2-Chlorotoluene	<22		69	22	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
4-Chlorotoluene	<24		69	24	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
4-Isopropyltoluene	<25		69	25	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Benzene	<10		17	10	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Bromobenzene	<25		69	25	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Bromoform	<33		69	33	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Bromomethane	<55		210	55	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Carbon tetrachloride	<26		69	26	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Chlorobenzene	<27		69	27	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Chlorobromomethane	<29	*+	69	29	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Chlorodibromomethane	<34		69	34	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Chloroethane	<35		340	35	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Chloroform	<25		140	25	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Chloromethane	<22		340	22	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
cis-1,2-Dichloroethene	<28		69	28	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
cis-1,3-Dichloropropene	<29		69	29	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Dibromomethane	<19		69	19	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Dichlorobromomethane	<26		69	26	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Dichlorodifluoromethane	<46		210	46	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Ethylbenzene	<13		17	13	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Ethylene Dibromide	<27		69	27	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Hexachlorobutadiene	<31		69	31	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Isopropyl ether	<19		69	19	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Isopropylbenzene	<26		69	26	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Methyl tert-butyl ether	<27		69	27	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Methylene Chloride	<110		340	110	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Naphthalene	<23		69	23	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
n-Butylbenzene	<27		69	27	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
N-Propylbenzene	<29		69	29	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50

Client: Stantec Consulting Corporation
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Job ID: 500-247366-1

Client Sample ID: TP-11 STA 141+00 0-1'
Date Collected: 03/12/24 10:50
Date Received: 03/13/24 10:05

Lab Sample ID: 500-247366-11
Matrix: Solid
Percent Solids: 84.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27		69	27	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Styrene	<27		69	27	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
tert-Butylbenzene	<27		69	27	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Tetrachloroethene	<25		69	25	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Toluene	<10		17	10	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
trans-1,2-Dichloroethene	<24		69	24	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
trans-1,3-Dichloropropene	<25		69	25	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Trichloroethene	<11	*+	34	11	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Trichlorofluoromethane	<29		69	29	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Vinyl chloride	<18		69	18	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50
Xylenes, Total	<15		34	15	ug/Kg	☼	03/12/24 10:50	03/20/24 11:54	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*75 - 126*	*03/12/24 10:50*	*03/20/24 11:54*	*50*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*	*03/12/24 10:50*	*03/20/24 11:54*	*50*
Dibromofluoromethane (Surr)	*113*		*75 - 120*	*03/12/24 10:50*	*03/20/24 11:54*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*03/12/24 10:50*	*03/20/24 11:54*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<7.0		79	7.0	ug/Kg	☼	03/22/24 07:54	03/25/24 15:50	1
2-Methylnaphthalene	<7.8		79	7.8	ug/Kg	☼	03/22/24 07:54	03/25/24 15:50	1
Acenaphthene	<7.9		39	7.9	ug/Kg	☼	03/22/24 07:54	03/25/24 15:50	1
Acenaphthylene	<6.6		39	6.6	ug/Kg	☼	03/22/24 07:54	03/25/24 15:50	1
Anthracene	<8.0		39	8.0	ug/Kg	☼	03/22/24 07:54	03/25/24 15:50	1
Benzo[a]anthracene	**41**		39	8.3	ug/Kg	☼	03/22/24 07:54	03/25/24 15:50	1
Benzo[a]pyrene	**77**		39	38	ug/Kg	☼	03/22/24 07:54	03/25/24 15:50	1
Benzo[b]fluoranthene	**76**		39	37	ug/Kg	☼	03/22/24 07:54	03/25/24 15:50	1
Benzo[g,h,i]perylene	**68**		39	8.4	ug/Kg	☼	03/22/24 07:54	03/25/24 15:50	1
Benzo[k]fluoranthene	**23**	**J**	39	15	ug/Kg	☼	03/22/24 07:54	03/25/24 15:50	1
Chrysene	**51**		39	10	ug/Kg	☼	03/22/24 07:54	03/25/24 15:50	1
Dibenz(a,h)anthracene	<39		39	39	ug/Kg	☼	03/22/24 07:54	03/25/24 15:50	1
Fluoranthene	**110**		39	9.0	ug/Kg	☼	03/22/24 07:54	03/25/24 15:50	1
Fluorene	<12		39	12	ug/Kg	☼	03/22/24 07:54	03/25/24 15:50	1
Indeno[1,2,3-cd]pyrene	**53**		39	38	ug/Kg	☼	03/22/24 07:54	03/25/24 15:50	1
Naphthalene	<7.0		39	7.0	ug/Kg	☼	03/22/24 07:54	03/25/24 15:50	1
Phenanthrene	**49**		39	8.5	ug/Kg	☼	03/22/24 07:54	03/25/24 15:50	1
Pyrene	**92**		39	11	ug/Kg	☼	03/22/24 07:54	03/25/24 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*73*		*37 - 147*	*03/22/24 07:54*	*03/25/24 15:50*	*1*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*03/22/24 07:54*	*03/25/24 15:50*	*1*
Terphenyl-d14 (Surr)	*91*		*42 - 157*	*03/22/24 07:54*	*03/25/24 15:50*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.9**		1.1	0.37	mg/Kg	☼	03/20/24 10:21	03/27/24 22:12	1
Barium	**68**	**B**	1.1	0.12	mg/Kg	☼	03/20/24 10:21	03/27/24 22:12	1
Cadmium	**0.053**	**J B**	0.21	0.039	mg/Kg	☼	03/20/24 10:21	03/27/24 22:12	1
Chromium	**20**		1.1	0.53	mg/Kg	☼	03/20/24 10:21	03/27/24 22:12	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-11 STA 141+00 0-1'
Lab Sample ID: 500-247366-11
Date Collected: 03/12/24 10:50
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 84.7

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**58**		0.53	0.25	mg/Kg	☼	03/20/24 10:21	03/27/24 22:12	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	03/20/24 10:21	03/27/24 22:12	1
Silver	<0.14		0.53	0.14	mg/Kg	☼	03/20/24 10:21	03/27/24 22:12	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.017	0.0090	mg/Kg	☼	03/26/24 16:40	03/27/24 07:20	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-12 STA 146+00 0-1'
Lab Sample ID: 500-247366-12
Date Collected: 03/12/24 11:00
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 84.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		67	31	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
1,1,1-Trichloroethane	<25		67	25	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
1,1,2,2-Tetrachloroethane	<27		67	27	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
1,1,2-Trichloroethane	<24		67	24	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
1,1-Dichloroethane	<27		67	27	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
1,1-Dichloroethene	<26		67	26	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
1,1-Dichloropropene	<20		67	20	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
1,2,3-Trichlorobenzene	<31		67	31	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
1,2,3-Trichloropropane	<28		130	28	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
1,2,4-Trichlorobenzene	<23		67	23	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
1,2,4-Trimethylbenzene	<24		67	24	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
1,2-Dibromo-3-Chloropropane	<130		340	130	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
1,2-Dichlorobenzene	<22		67	22	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
1,2-Dichloroethane	<26		67	26	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
1,2-Dichloropropane	<29		67	29	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
1,3,5-Trimethylbenzene	<25		67	25	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
1,3-Dichlorobenzene	<27		67	27	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
1,3-Dichloropropane	<24		67	24	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
1,4-Dichlorobenzene	<24		67	24	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
2,2-Dichloropropane	<30		340	30	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
2-Chlorotoluene	<21		67	21	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
4-Chlorotoluene	<23		67	23	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
4-Isopropyltoluene	<24		67	24	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Benzene	<9.8		17	9.8	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Bromobenzene	<24		67	24	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Bromoform	<32		67	32	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Bromomethane	<53		200	53	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Carbon tetrachloride	<26		67	26	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Chlorobenzene	<26		67	26	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Chlorobromomethane	<29		67	29	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Chlorodibromomethane	<33		67	33	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Chloroethane	<34		340	34	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Chloroform	**29**	**J**	130	25	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Chloromethane	<21		340	21	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
cis-1,2-Dichloroethene	<27		67	27	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
cis-1,3-Dichloropropene	<28		67	28	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Dibromomethane	<18		67	18	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Dichlorobromomethane	<25		67	25	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Dichlorodifluoromethane	<45		200	45	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Ethylbenzene	<12		17	12	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Ethylene Dibromide	<26		67	26	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Hexachlorobutadiene	<30		67	30	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Isopropyl ether	<18		67	18	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Isopropylbenzene	<26		67	26	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Methyl tert-butyl ether	<26		67	26	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Methylene Chloride	<110		340	110	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Naphthalene	<22		67	22	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
n-Butylbenzene	<26		67	26	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
N-Propylbenzene	<28		67	28	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50

Client: Stantec Consulting Corporation
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Job ID: 500-247366-1

Client Sample ID: TP-12 STA 146+00 0-1'
Date Collected: 03/12/24 11:00
Date Received: 03/13/24 10:05

Lab Sample ID: 500-247366-12
Matrix: Solid
Percent Solids: 84.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27		67	27	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Styrene	<26		67	26	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
tert-Butylbenzene	<27		67	27	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Tetrachloroethene	<25		67	25	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Toluene	<9.9		17	9.9	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
trans-1,2-Dichloroethene	<23		67	23	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
trans-1,3-Dichloropropene	<24		67	24	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Trichloroethene	<11		34	11	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Trichlorofluoromethane	<29		67	29	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Vinyl chloride	<18		67	18	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50
Xylenes, Total	<15		34	15	ug/Kg	☼	03/12/24 11:00	03/19/24 16:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*75 - 126*	*03/12/24 11:00*	*03/19/24 16:47*	*50*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*	*03/12/24 11:00*	*03/19/24 16:47*	*50*
Dibromofluoromethane (Surr)	*109*		*75 - 120*	*03/12/24 11:00*	*03/19/24 16:47*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*03/12/24 11:00*	*03/19/24 16:47*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<6.8		77	6.8	ug/Kg	☼	03/22/24 07:54	03/25/24 17:04	1
2-Methylnaphthalene	<7.6		77	7.6	ug/Kg	☼	03/22/24 07:54	03/25/24 17:04	1
Acenaphthene	<7.7		38	7.7	ug/Kg	☼	03/22/24 07:54	03/25/24 17:04	1
Acenaphthylene	<6.4		38	6.4	ug/Kg	☼	03/22/24 07:54	03/25/24 17:04	1
Anthracene	<7.8		38	7.8	ug/Kg	☼	03/22/24 07:54	03/25/24 17:04	1
Benzo[a]anthracene	**60**		38	8.0	ug/Kg	☼	03/22/24 07:54	03/25/24 17:04	1
Benzo[a]pyrene	**110**		38	37	ug/Kg	☼	03/22/24 07:54	03/25/24 17:04	1
Benzo[b]fluoranthene	**150**		38	36	ug/Kg	☼	03/22/24 07:54	03/25/24 17:04	1
Benzo[g,h,i]perylene	**120**		38	8.2	ug/Kg	☼	03/22/24 07:54	03/25/24 17:04	1
Benzo[k]fluoranthene	**49**		38	14	ug/Kg	☼	03/22/24 07:54	03/25/24 17:04	1
Chrysene	**96**		38	10	ug/Kg	☼	03/22/24 07:54	03/25/24 17:04	1
Dibenz(a,h)anthracene	<38		38	38	ug/Kg	☼	03/22/24 07:54	03/25/24 17:04	1
Fluoranthene	**150**		38	8.8	ug/Kg	☼	03/22/24 07:54	03/25/24 17:04	1
Fluorene	<11		38	11	ug/Kg	☼	03/22/24 07:54	03/25/24 17:04	1
Indeno[1,2,3-cd]pyrene	**120**		38	37	ug/Kg	☼	03/22/24 07:54	03/25/24 17:04	1
Naphthalene	<6.9		38	6.9	ug/Kg	☼	03/22/24 07:54	03/25/24 17:04	1
Phenanthrene	**49**		38	8.3	ug/Kg	☼	03/22/24 07:54	03/25/24 17:04	1
Pyrene	**130**		38	10	ug/Kg	☼	03/22/24 07:54	03/25/24 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*58*		*37 - 147*	*03/22/24 07:54*	*03/25/24 17:04*	*1*
2-Fluorobiphenyl (Surr)	*54*		*43 - 145*	*03/22/24 07:54*	*03/25/24 17:04*	*1*
Terphenyl-d14 (Surr)	*70*		*42 - 157*	*03/22/24 07:54*	*03/25/24 17:04*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.5**		1.1	0.37	mg/Kg	☼	03/20/24 10:21	03/27/24 22:16	1
Barium	**30**	**B**	1.1	0.12	mg/Kg	☼	03/20/24 10:21	03/27/24 22:16	1
Cadmium	**0.20**	**J B**	0.22	0.039	mg/Kg	☼	03/20/24 10:21	03/27/24 22:16	1
Chromium	**13**		1.1	0.54	mg/Kg	☼	03/20/24 10:21	03/27/24 22:16	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-12 STA 146+00 0-1'
Lab Sample ID: 500-247366-12
Date Collected: 03/12/24 11:00
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 84.9

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**8.8**		0.54	0.25	mg/Kg	☼	03/20/24 10:21	03/27/24 22:16	1
Selenium	<0.64		1.1	0.64	mg/Kg	☼	03/20/24 10:21	03/27/24 22:16	1
Silver	<0.14		0.54	0.14	mg/Kg	☼	03/20/24 10:21	03/27/24 22:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**	**J**	0.017	0.0092	mg/Kg	☼	03/26/24 16:40	03/27/24 07:28	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-13 STA 150+00 0-1'
Lab Sample ID: 500-247366-13
Date Collected: 03/12/24 11:15
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 85.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		67	31	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
1,1,1-Trichloroethane	<25		67	25	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
1,1,2,2-Tetrachloroethane	<27		67	27	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
1,1,2-Trichloroethane	<24		67	24	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
1,1-Dichloroethane	<27		67	27	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
1,1-Dichloroethene	<26		67	26	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
1,1-Dichloropropene	<20		67	20	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
1,2,3-Trichlorobenzene	<31		67	31	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
1,2,3-Trichloropropane	<28		130	28	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
1,2,4-Trichlorobenzene	<23		67	23	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
1,2,4-Trimethylbenzene	<24		67	24	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
1,2-Dichlorobenzene	<22		67	22	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
1,2-Dichloroethane	<26		67	26	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
1,2-Dichloropropane	<29		67	29	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
1,3,5-Trimethylbenzene	<25		67	25	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
1,3-Dichlorobenzene	<27		67	27	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
1,3-Dichloropropane	<24		67	24	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
1,4-Dichlorobenzene	<24		67	24	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
2,2-Dichloropropane	<30		330	30	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
2-Chlorotoluene	<21		67	21	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
4-Chlorotoluene	<23		67	23	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
4-Isopropyltoluene	<24		67	24	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Benzene	<9.8		17	9.8	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Bromobenzene	<24		67	24	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Bromoform	<32		67	32	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Bromomethane	<53		200	53	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Carbon tetrachloride	<26		67	26	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Chlorobenzene	<26		67	26	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Chlorobromomethane	<29		67	29	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Chlorodibromomethane	<33		67	33	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Chloroethane	<34		330	34	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Chloroform	<25		130	25	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Chloromethane	<21		330	21	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
cis-1,2-Dichloroethene	<27		67	27	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
cis-1,3-Dichloropropene	<28		67	28	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Dibromomethane	<18		67	18	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Dichlorobromomethane	<25		67	25	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Dichlorodifluoromethane	<45		200	45	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Ethylbenzene	<12		17	12	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Ethylene Dibromide	<26		67	26	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Hexachlorobutadiene	<30		67	30	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Isopropyl ether	<18		67	18	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Isopropylbenzene	<26		67	26	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Methyl tert-butyl ether	<26		67	26	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Methylene Chloride	<110		330	110	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Naphthalene	<22		67	22	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
n-Butylbenzene	<26		67	26	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
N-Propylbenzene	<28		67	28	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50

Client: Stantec Consulting Corporation
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Job ID: 500-247366-1

Client Sample ID: TP-13 STA 150+00 0-1'
Date Collected: 03/12/24 11:15
Date Received: 03/13/24 10:05

Lab Sample ID: 500-247366-13
Matrix: Solid
Percent Solids: 85.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27		67	27	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Styrene	<26		67	26	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
tert-Butylbenzene	<27		67	27	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Tetrachloroethene	<25		67	25	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Toluene	<9.8		17	9.8	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
trans-1,2-Dichloroethene	<23		67	23	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
trans-1,3-Dichloropropene	<24		67	24	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Trichloroethene	<11		33	11	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Trichlorofluoromethane	<29		67	29	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Vinyl chloride	<18		67	18	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50
Xylenes, Total	<15		33	15	ug/Kg	☼	03/12/24 11:15	03/19/24 17:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*75 - 126*	*03/12/24 11:15*	*03/19/24 17:11*	*50*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*	*03/12/24 11:15*	*03/19/24 17:11*	*50*
Dibromofluoromethane (Surr)	*108*		*75 - 120*	*03/12/24 11:15*	*03/19/24 17:11*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*03/12/24 11:15*	*03/19/24 17:11*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<6.9		78	6.9	ug/Kg	☼	03/22/24 07:54	03/25/24 17:29	1
2-Methylnaphthalene	<7.8		78	7.8	ug/Kg	☼	03/22/24 07:54	03/25/24 17:29	1
Acenaphthene	<7.9		39	7.9	ug/Kg	☼	03/22/24 07:54	03/25/24 17:29	1
Acenaphthylene	<6.6		39	6.6	ug/Kg	☼	03/22/24 07:54	03/25/24 17:29	1
Anthracene	<7.9		39	7.9	ug/Kg	☼	03/22/24 07:54	03/25/24 17:29	1
Benzo[a]anthracene	**58**		39	8.2	ug/Kg	☼	03/22/24 07:54	03/25/24 17:29	1
Benzo[a]pyrene	**100**		39	37	ug/Kg	☼	03/22/24 07:54	03/25/24 17:29	1
Benzo[b]fluoranthene	**120**		39	37	ug/Kg	☼	03/22/24 07:54	03/25/24 17:29	1
Benzo[g,h,i]perylene	**97**		39	8.4	ug/Kg	☼	03/22/24 07:54	03/25/24 17:29	1
Benzo[k]fluoranthene	**47**		39	15	ug/Kg	☼	03/22/24 07:54	03/25/24 17:29	1
Chrysene	**72**		39	10	ug/Kg	☼	03/22/24 07:54	03/25/24 17:29	1
Dibenz(a,h)anthracene	<39		39	39	ug/Kg	☼	03/22/24 07:54	03/25/24 17:29	1
Fluoranthene	**110**		39	9.0	ug/Kg	☼	03/22/24 07:54	03/25/24 17:29	1
Fluorene	<11		39	11	ug/Kg	☼	03/22/24 07:54	03/25/24 17:29	1
Indeno[1,2,3-cd]pyrene	**95**		39	38	ug/Kg	☼	03/22/24 07:54	03/25/24 17:29	1
Naphthalene	<7.0		39	7.0	ug/Kg	☼	03/22/24 07:54	03/25/24 17:29	1
Phenanthrene	**31**	**J**	39	8.4	ug/Kg	☼	03/22/24 07:54	03/25/24 17:29	1
Pyrene	**100**		39	11	ug/Kg	☼	03/22/24 07:54	03/25/24 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*64*		*37 - 147*	*03/22/24 07:54*	*03/25/24 17:29*	*1*
2-Fluorobiphenyl (Surr)	*61*		*43 - 145*	*03/22/24 07:54*	*03/25/24 17:29*	*1*
Terphenyl-d14 (Surr)	*74*		*42 - 157*	*03/22/24 07:54*	*03/25/24 17:29*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.3**		1.1	0.37	mg/Kg	☼	03/20/24 10:21	03/27/24 22:21	1
Barium	**40**	**B**	1.1	0.12	mg/Kg	☼	03/20/24 10:21	03/27/24 22:21	1
Cadmium	**0.18**	**J B**	0.22	0.039	mg/Kg	☼	03/20/24 10:21	03/27/24 22:21	1
Chromium	**14**		1.1	0.53	mg/Kg	☼	03/20/24 10:21	03/27/24 22:21	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-13 STA 150+00 0-1'
Lab Sample ID: 500-247366-13
Date Collected: 03/12/24 11:15
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 85.0

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**14**		0.54	0.25	mg/Kg	☼	03/20/24 10:21	03/27/24 22:21	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	03/20/24 10:21	03/27/24 22:21	1
Silver	<0.14		0.54	0.14	mg/Kg	☼	03/20/24 10:21	03/27/24 22:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.019	0.0099	mg/Kg	☼	03/26/24 16:40	03/27/24 07:30	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-14 STA 154+00 0-1'
Lab Sample ID: 500-247366-14
Date Collected: 03/12/24 11:25
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 86.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		67	31	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
1,1,1-Trichloroethane	<25		67	25	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
1,1,2,2-Tetrachloroethane	<26		67	26	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
1,1,2-Trichloroethane	<23		67	23	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
1,1-Dichloroethane	<27		67	27	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
1,1-Dichloroethene	<26		67	26	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
1,1-Dichloropropene	<20		67	20	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
1,2,3-Trichlorobenzene	<30		67	30	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
1,2,3-Trichloropropane	<28		130	28	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
1,2,4-Trichlorobenzene	<23		67	23	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
1,2,4-Trimethylbenzene	<24		67	24	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
1,2-Dichlorobenzene	<22		67	22	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
1,2-Dichloroethane	<26		67	26	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
1,2-Dichloropropane	<28		67	28	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
1,3,5-Trimethylbenzene	<25		67	25	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
1,3-Dichlorobenzene	<27		67	27	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
1,3-Dichloropropane	<24		67	24	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
1,4-Dichlorobenzene	<24		67	24	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
2,2-Dichloropropane	<30		330	30	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
2-Chlorotoluene	<21		67	21	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
4-Chlorotoluene	<23		67	23	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
4-Isopropyltoluene	<24		67	24	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Benzene	<9.7		17	9.7	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Bromobenzene	<24		67	24	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Bromoform	<32		67	32	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Bromomethane	<53		200	53	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Carbon tetrachloride	<26		67	26	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Chlorobenzene	<26		67	26	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Chlorobromomethane	<28		67	28	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Chlorodibromomethane	<32		67	32	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Chloroethane	<34		330	34	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Chloroform	<25		130	25	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Chloromethane	<21		330	21	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
cis-1,2-Dichloroethene	<27		67	27	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
cis-1,3-Dichloropropene	<28		67	28	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Dibromomethane	<18		67	18	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Dichlorobromomethane	<25		67	25	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Dichlorodifluoromethane	<45		200	45	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Ethylbenzene	<12		17	12	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Ethylene Dibromide	<26		67	26	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Hexachlorobutadiene	<30		67	30	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Isopropyl ether	<18		67	18	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Isopropylbenzene	<26		67	26	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Methyl tert-butyl ether	<26		67	26	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Methylene Chloride	<110		330	110	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Naphthalene	<22		67	22	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
n-Butylbenzene	<26		67	26	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
N-Propylbenzene	<28		67	28	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50

Client: Stantec Consulting Corporation
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Job ID: 500-247366-1

Client Sample ID: TP-14 STA 154+00 0-1'

Date Collected: 03/12/24 11:25
Date Received: 03/13/24 10:05

Lab Sample ID: 500-247366-14

Matrix: Solid
Percent Solids: 86.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<26		67	26	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Styrene	<26		67	26	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
tert-Butylbenzene	<26		67	26	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Tetrachloroethene	<25		67	25	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Toluene	<9.8		17	9.8	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
trans-1,2-Dichloroethene	<23		67	23	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
trans-1,3-Dichloropropene	<24		67	24	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Trichloroethene	<11		33	11	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Trichlorofluoromethane	<28		67	28	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Vinyl chloride	<17		67	17	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50
Xylenes, Total	<15		33	15	ug/Kg	☼	03/12/24 11:25	03/19/24 17:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*75 - 126*	*03/12/24 11:25*	*03/19/24 17:35*	*50*
4-Bromofluorobenzene (Surr)	*114*		*72 - 124*	*03/12/24 11:25*	*03/19/24 17:35*	*50*
Dibromofluoromethane (Surr)	*108*		*75 - 120*	*03/12/24 11:25*	*03/19/24 17:35*	*50*
Toluene-d8 (Surr)	*92*		*75 - 120*	*03/12/24 11:25*	*03/19/24 17:35*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<13		150	13	ug/Kg	☼	03/22/24 07:54	03/26/24 21:16	2
2-Methylnaphthalene	<15		150	15	ug/Kg	☼	03/22/24 07:54	03/26/24 21:16	2
Acenaphthene	<15		74	15	ug/Kg	☼	03/22/24 07:54	03/26/24 21:16	2
Acenaphthylene	<13		74	13	ug/Kg	☼	03/22/24 07:54	03/26/24 21:16	2
Anthracene	**20**	**J**	74	15	ug/Kg	☼	03/22/24 07:54	03/26/24 21:16	2
Benzo[a]anthracene	**140**		74	16	ug/Kg	☼	03/22/24 07:54	03/26/24 21:16	2
Benzo[a]pyrene	**240**		74	72	ug/Kg	☼	03/22/24 07:54	03/26/24 21:16	2
Benzo[b]fluoranthene	**280**		74	71	ug/Kg	☼	03/22/24 07:54	03/26/24 21:16	2
Benzo[g,h,i]perylene	**260**		74	16	ug/Kg	☼	03/22/24 07:54	03/26/24 21:16	2
Benzo[k]fluoranthene	**93**		74	28	ug/Kg	☼	03/22/24 07:54	03/26/24 21:16	2
Chrysene	**170**		74	20	ug/Kg	☼	03/22/24 07:54	03/26/24 21:16	2
Dibenz(a,h)anthracene	<74		74	74	ug/Kg	☼	03/22/24 07:54	03/26/24 21:16	2
Fluoranthene	**320**		74	17	ug/Kg	☼	03/22/24 07:54	03/26/24 21:16	2
Fluorene	<22		74	22	ug/Kg	☼	03/22/24 07:54	03/26/24 21:16	2
Indeno[1,2,3-cd]pyrene	**270**		74	72	ug/Kg	☼	03/22/24 07:54	03/26/24 21:16	2
Naphthalene	<13		74	13	ug/Kg	☼	03/22/24 07:54	03/26/24 21:16	2
Phenanthrene	**110**		74	16	ug/Kg	☼	03/22/24 07:54	03/26/24 21:16	2
Pyrene	**270**		74	20	ug/Kg	☼	03/22/24 07:54	03/26/24 21:16	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*66*		*37 - 147*	*03/22/24 07:54*	*03/26/24 21:16*	*2*
2-Fluorobiphenyl (Surr)	*65*		*43 - 145*	*03/22/24 07:54*	*03/26/24 21:16*	*2*
Terphenyl-d14 (Surr)	*77*		*42 - 157*	*03/22/24 07:54*	*03/26/24 21:16*	*2*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.2**		1.1	0.37	mg/Kg	☼	03/20/24 10:21	03/27/24 22:25	1
Barium	**35**	**B**	1.1	0.12	mg/Kg	☼	03/20/24 10:21	03/27/24 22:25	1
Cadmium	**0.16**	**J B**	0.21	0.039	mg/Kg	☼	03/20/24 10:21	03/27/24 22:25	1
Chromium	**15**		1.1	0.53	mg/Kg	☼	03/20/24 10:21	03/27/24 22:25	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-14 STA 154+00 0-1'
Lab Sample ID: 500-247366-14
Date Collected: 03/12/24 11:25
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 86.4

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**7.6**		0.54	0.25	mg/Kg	☼	03/20/24 10:21	03/27/24 22:25	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	03/20/24 10:21	03/27/24 22:25	1
Silver	<0.14		0.54	0.14	mg/Kg	☼	03/20/24 10:21	03/27/24 22:25	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0096		0.018	0.0096	mg/Kg	☼	03/26/24 16:40	03/27/24 07:32	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-15 STA 158+00 0-1'
Lab Sample ID: 500-247366-15
Date Collected: 03/12/24 11:35
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 89.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<28		61	28	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
1,1,1-Trichloroethane	<23		61	23	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
1,1,2,2-Tetrachloroethane	<24		61	24	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
1,1,2-Trichloroethane	<22		61	22	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
1,1-Dichloroethane	<25		61	25	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
1,1-Dichloroethene	<24		61	24	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
1,1-Dichloropropene	<18		61	18	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
1,2,3-Trichlorobenzene	<28		61	28	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
1,2,4-Trichlorobenzene	<21		61	21	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
1,2,4-Trimethylbenzene	<22		61	22	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
1,2-Dibromo-3-Chloropropane	<120		310	120	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
1,2-Dichlorobenzene	<21		61	21	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
1,2-Dichloroethane	<24		61	24	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
1,2-Dichloropropane	<26		61	26	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
1,3,5-Trimethylbenzene	<23		61	23	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
1,3-Dichlorobenzene	<25		61	25	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
1,3-Dichloropropane	<22		61	22	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
1,4-Dichlorobenzene	<22		61	22	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
2,2-Dichloropropane	<27		310	27	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
2-Chlorotoluene	<19		61	19	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
4-Chlorotoluene	<21		61	21	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
4-Isopropyltoluene	<22		61	22	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Benzene	<9.0		15	9.0	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Bromobenzene	<22		61	22	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Bromoform	<30		61	30	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Bromomethane	<49		180	49	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Carbon tetrachloride	<24		61	24	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Chlorobenzene	<24		61	24	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Chlorobromomethane	<26		61	26	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Chlorodibromomethane	<30		61	30	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Chloroethane	<31		310	31	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Chloroform	**31**	**J**	120	23	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Chloromethane	<20		310	20	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
cis-1,2-Dichloroethene	<25		61	25	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
cis-1,3-Dichloropropene	<26		61	26	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Dibromomethane	<17		61	17	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Dichlorobromomethane	<23		61	23	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Dichlorodifluoromethane	<41		180	41	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Ethylbenzene	<11		15	11	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Ethylene Dibromide	<24		61	24	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Hexachlorobutadiene	<27		61	27	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Isopropyl ether	<17		61	17	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Isopropylbenzene	<24		61	24	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Methyl tert-butyl ether	<24		61	24	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Methylene Chloride	<100		310	100	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Naphthalene	<21		61	21	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
n-Butylbenzene	<24		61	24	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
N-Propylbenzene	<25		61	25	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50

Client: Stantec Consulting Corporation
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Job ID: 500-247366-1

Client Sample ID: TP-15 STA 158+00 0-1'

Date Collected: 03/12/24 11:35
Date Received: 03/13/24 10:05

Lab Sample ID: 500-247366-15

Matrix: Solid
Percent Solids: 89.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<24		61	24	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Styrene	<24		61	24	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
tert-Butylbenzene	<24		61	24	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Tetrachloroethene	<23		61	23	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Toluene	<9.0		15	9.0	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
trans-1,2-Dichloroethene	<21		61	21	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
trans-1,3-Dichloropropene	<22		61	22	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Trichloroethene	<10		31	10	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Trichlorofluoromethane	<26		61	26	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Vinyl chloride	<16		61	16	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50
Xylenes, Total	<14		31	14	ug/Kg	☼	03/12/24 11:35	03/19/24 17:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*75 - 126*	*03/12/24 11:35*	*03/19/24 17:59*	*50*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*	*03/12/24 11:35*	*03/19/24 17:59*	*50*
Dibromofluoromethane (Surr)	*109*		*75 - 120*	*03/12/24 11:35*	*03/19/24 17:59*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*03/12/24 11:35*	*03/19/24 17:59*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<13		150	13	ug/Kg	☼	03/22/24 07:54	03/25/24 21:38	2
2-Methylnaphthalene	<15		150	15	ug/Kg	☼	03/22/24 07:54	03/25/24 21:38	2
Acenaphthene	<15		72	15	ug/Kg	☼	03/22/24 07:54	03/25/24 21:38	2
Acenaphthylene	<12		72	12	ug/Kg	☼	03/22/24 07:54	03/25/24 21:38	2
Anthracene	**32**	**J**	72	15	ug/Kg	☼	03/22/24 07:54	03/25/24 21:38	2
Benzo[a]anthracene	**280**		72	15	ug/Kg	☼	03/22/24 07:54	03/25/24 21:38	2
Benzo[a]pyrene	**440**		72	70	ug/Kg	☼	03/22/24 07:54	03/25/24 21:38	2
Benzo[b]fluoranthene	**660**		72	69	ug/Kg	☼	03/22/24 07:54	03/25/24 21:38	2
Benzo[g,h,i]perylene	**480**		72	16	ug/Kg	☼	03/22/24 07:54	03/25/24 21:38	2
Benzo[k]fluoranthene	**270**		72	28	ug/Kg	☼	03/22/24 07:54	03/25/24 21:38	2
Chrysene	**470**		72	19	ug/Kg	☼	03/22/24 07:54	03/25/24 21:38	2
Dibenz(a,h)anthracene	**120**		72	72	ug/Kg	☼	03/22/24 07:54	03/25/24 21:38	2
Fluoranthene	**750**		72	17	ug/Kg	☼	03/22/24 07:54	03/25/24 21:38	2
Fluorene	<21		72	21	ug/Kg	☼	03/22/24 07:54	03/25/24 21:38	2
Indeno[1,2,3-cd]pyrene	**560**		72	71	ug/Kg	☼	03/22/24 07:54	03/25/24 21:38	2
Naphthalene	<13		72	13	ug/Kg	☼	03/22/24 07:54	03/25/24 21:38	2
Phenanthrene	**200**		72	16	ug/Kg	☼	03/22/24 07:54	03/25/24 21:38	2
Pyrene	**590**		72	20	ug/Kg	☼	03/22/24 07:54	03/25/24 21:38	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*57*		*37 - 147*	*03/22/24 07:54*	*03/25/24 21:38*	*2*
2-Fluorobiphenyl (Surr)	*56*		*43 - 145*	*03/22/24 07:54*	*03/25/24 21:38*	*2*
Terphenyl-d14 (Surr)	*70*		*42 - 157*	*03/22/24 07:54*	*03/25/24 21:38*	*2*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.5**		1.0	0.36	mg/Kg	☼	03/20/24 10:21	03/27/24 22:38	1
Barium	**27**	**B**	1.0	0.12	mg/Kg	☼	03/20/24 10:21	03/27/24 22:38	1
Cadmium	**0.18**	**J B**	0.21	0.037	mg/Kg	☼	03/20/24 10:21	03/27/24 22:38	1
Chromium	**12**		1.0	0.51	mg/Kg	☼	03/20/24 10:21	03/27/24 22:38	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-15 STA 158+00 0-1'
Lab Sample ID: 500-247366-15
Date Collected: 03/12/24 11:35
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 89.5

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**8.1**		0.52	0.24	mg/Kg	☼	03/20/24 10:21	03/27/24 22:38	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	03/20/24 10:21	03/27/24 22:38	1
Silver	<0.13		0.52	0.13	mg/Kg	☼	03/20/24 10:21	03/27/24 22:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0091		0.017	0.0091	mg/Kg	☼	03/26/24 16:40	03/27/24 07:49	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-16 STA 163+00 0-1'
Lab Sample ID: 500-247366-16
Date Collected: 03/12/24 11:50
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 83.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		68	32	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
1,1,1-Trichloroethane	<26		68	26	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
1,1,2,2-Tetrachloroethane	<27		68	27	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
1,1,2-Trichloroethane	<24		68	24	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
1,1-Dichloroethane	<28		68	28	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
1,1-Dichloroethene	<27		68	27	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
1,1-Dichloropropene	<20		68	20	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
1,2,3-Trichlorobenzene	<31		68	31	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
1,2,3-Trichloropropane	<28		140	28	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
1,2,4-Trichlorobenzene	<23		68	23	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
1,2,4-Trimethylbenzene	<24		68	24	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
1,2-Dibromo-3-Chloropropane	<140		340	140	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
1,2-Dichlorobenzene	<23		68	23	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
1,2-Dichloroethane	<27		68	27	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
1,2-Dichloropropane	<29		68	29	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
1,3,5-Trimethylbenzene	<26		68	26	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
1,3-Dichlorobenzene	<27		68	27	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
1,3-Dichloropropane	<25		68	25	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
1,4-Dichlorobenzene	<25		68	25	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
2,2-Dichloropropane	<30		340	30	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
2-Chlorotoluene	<21		68	21	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
4-Chlorotoluene	<24		68	24	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
4-Isopropyltoluene	<25		68	25	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Benzene	<10		17	10	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Bromobenzene	<24		68	24	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Bromoform	<33		68	33	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Bromomethane	<54		210	54	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Carbon tetrachloride	<26		68	26	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Chlorobenzene	<26		68	26	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Chlorobromomethane	<29		68	29	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Chlorodibromomethane	<33		68	33	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Chloroethane	<34		340	34	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Chloroform	**32**	**J**	140	25	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Chloromethane	<22		340	22	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
cis-1,2-Dichloroethene	<28		68	28	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
cis-1,3-Dichloropropene	<28		68	28	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Dibromomethane	<18		68	18	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Dichlorobromomethane	<25		68	25	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Dichlorodifluoromethane	<46		210	46	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Ethylbenzene	<13		17	13	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Ethylene Dibromide	<26		68	26	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Hexachlorobutadiene	<31		68	31	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Isopropyl ether	<19		68	19	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Isopropylbenzene	<26		68	26	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Methyl tert-butyl ether	<27		68	27	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Methylene Chloride	<110		340	110	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Naphthalene	<23		68	23	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
n-Butylbenzene	<27		68	27	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
N-Propylbenzene	<28		68	28	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50

Client: Stantec Consulting Corporation
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Job ID: 500-247366-1

Client Sample ID: TP-16 STA 163+00 0-1'
Date Collected: 03/12/24 11:50
Date Received: 03/13/24 10:05

Lab Sample ID: 500-247366-16
Matrix: Solid
Percent Solids: 83.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27		68	27	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Styrene	<26		68	26	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
tert-Butylbenzene	<27		68	27	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Tetrachloroethene	<25		68	25	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Toluene	<10		17	10	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
trans-1,2-Dichloroethene	<24		68	24	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
trans-1,3-Dichloropropene	<25		68	25	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Trichloroethene	<11		34	11	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Trichlorofluoromethane	<29		68	29	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Vinyl chloride	<18		68	18	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50
Xylenes, Total	<15		34	15	ug/Kg	☼	03/12/24 11:50	03/19/24 18:24	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*75 - 126*	*03/12/24 11:50*	*03/19/24 18:24*	*50*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*	*03/12/24 11:50*	*03/19/24 18:24*	*50*
Dibromofluoromethane (Surr)	*106*		*75 - 120*	*03/12/24 11:50*	*03/19/24 18:24*	*50*
Toluene-d8 (Surr)	*103*		*75 - 120*	*03/12/24 11:50*	*03/19/24 18:24*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<14		160	14	ug/Kg	☼	03/22/24 07:54	03/25/24 21:13	2
2-Methylnaphthalene	<16		160	16	ug/Kg	☼	03/22/24 07:54	03/25/24 21:13	2
Acenaphthene	<16		77	16	ug/Kg	☼	03/22/24 07:54	03/25/24 21:13	2
Acenaphthylene	<13		77	13	ug/Kg	☼	03/22/24 07:54	03/25/24 21:13	2
Anthracene	**46**	**J**	77	16	ug/Kg	☼	03/22/24 07:54	03/25/24 21:13	2
Benzo[a]anthracene	**460**		77	17	ug/Kg	☼	03/22/24 07:54	03/25/24 21:13	2
Benzo[a]pyrene	**650**		77	75	ug/Kg	☼	03/22/24 07:54	03/25/24 21:13	2
Benzo[b]fluoranthene	**1000**		77	74	ug/Kg	☼	03/22/24 07:54	03/25/24 21:13	2
Benzo[g,h,i]perylene	**620**		77	17	ug/Kg	☼	03/22/24 07:54	03/25/24 21:13	2
Benzo[k]fluoranthene	**340**		77	30	ug/Kg	☼	03/22/24 07:54	03/25/24 21:13	2
Chrysene	**680**		77	21	ug/Kg	☼	03/22/24 07:54	03/25/24 21:13	2
Dibenz(a,h)anthracene	**150**		77	77	ug/Kg	☼	03/22/24 07:54	03/25/24 21:13	2
Fluoranthene	**1300**		77	18	ug/Kg	☼	03/22/24 07:54	03/25/24 21:13	2
Fluorene	<23		77	23	ug/Kg	☼	03/22/24 07:54	03/25/24 21:13	2
Indeno[1,2,3-cd]pyrene	**760**		77	76	ug/Kg	☼	03/22/24 07:54	03/25/24 21:13	2
Naphthalene	**14**	**J**	77	14	ug/Kg	☼	03/22/24 07:54	03/25/24 21:13	2
Phenanthrene	**350**		77	17	ug/Kg	☼	03/22/24 07:54	03/25/24 21:13	2
Pyrene	**1100**		77	21	ug/Kg	☼	03/22/24 07:54	03/25/24 21:13	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*61*		*37 - 147*	*03/22/24 07:54*	*03/25/24 21:13*	*2*
2-Fluorobiphenyl (Surr)	*57*		*43 - 145*	*03/22/24 07:54*	*03/25/24 21:13*	*2*
Terphenyl-d14 (Surr)	*66*		*42 - 157*	*03/22/24 07:54*	*03/25/24 21:13*	*2*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.4**		1.2	0.40	mg/Kg	☼	03/20/24 10:21	03/27/24 22:43	1
Barium	**47**	**B**	1.2	0.13	mg/Kg	☼	03/20/24 10:21	03/27/24 22:43	1
Cadmium	**0.19**	**J B**	0.23	0.042	mg/Kg	☼	03/20/24 10:21	03/27/24 22:43	1
Chromium	**15**		1.2	0.58	mg/Kg	☼	03/20/24 10:21	03/27/24 22:43	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-16 STA 163+00 0-1'
Lab Sample ID: 500-247366-16
Date Collected: 03/12/24 11:50
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 83.9

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**14**		0.58	0.27	mg/Kg	☼	03/20/24 10:21	03/27/24 22:43	1
Selenium	<0.68		1.2	0.68	mg/Kg	☼	03/20/24 10:21	03/27/24 22:43	1
Silver	<0.15		0.58	0.15	mg/Kg	☼	03/20/24 10:21	03/27/24 22:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**J**	0.019	0.010	mg/Kg	☼	03/26/24 16:40	03/27/24 07:51	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-17 STA 166+25 0-1.5'
Lab Sample ID: 500-247366-17
Date Collected: 03/12/24 12:05
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 88.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		62	29	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
1,1,1-Trichloroethane	<24		62	24	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
1,1,2,2-Tetrachloroethane	<25		62	25	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
1,1,2-Trichloroethane	<22		62	22	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
1,1-Dichloroethane	<26		62	26	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
1,1-Dichloroethene	<24		62	24	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
1,1-Dichloropropene	<19		62	19	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
1,2,3-Trichlorobenzene	<29		62	29	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
1,2,3-Trichloropropane	<26		120	26	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
1,2,4-Trichlorobenzene	<21		62	21	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
1,2,4-Trimethylbenzene	<22		62	22	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
1,2-Dibromo-3-Chloropropane	<120		310	120	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
1,2-Dichlorobenzene	<21		62	21	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
1,2-Dichloroethane	<24		62	24	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
1,2-Dichloropropane	<27		62	27	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
1,3,5-Trimethylbenzene	<24		62	24	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
1,3-Dichlorobenzene	<25		62	25	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
1,3-Dichloropropane	<23		62	23	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
1,4-Dichlorobenzene	<23		62	23	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
2,2-Dichloropropane	<28		310	28	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
2-Chlorotoluene	<20		62	20	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
4-Chlorotoluene	<22		62	22	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
4-Isopropyltoluene	<23		62	23	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Benzene	<9.1		16	9.1	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Bromobenzene	<22		62	22	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Bromoform	<30		62	30	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Bromomethane	<50		190	50	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Carbon tetrachloride	<24		62	24	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Chlorobenzene	<24		62	24	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Chlorobromomethane	<27		62	27	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Chlorodibromomethane	<30		62	30	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Chloroethane	<31		310	31	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Chloroform	<23		120	23	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Chloromethane	<20		310	20	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
cis-1,2-Dichloroethene	<25		62	25	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
cis-1,3-Dichloropropene	<26		62	26	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Dibromomethane	<17		62	17	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Dichlorobromomethane	<23		62	23	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Dichlorodifluoromethane	<42		190	42	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Ethylbenzene	<11		16	11	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Ethylene Dibromide	<24		62	24	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Hexachlorobutadiene	<28		62	28	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Isopropyl ether	<17		62	17	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Isopropylbenzene	<24		62	24	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Methyl tert-butyl ether	<25		62	25	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Methylene Chloride	<100		310	100	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Naphthalene	<21		62	21	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
n-Butylbenzene	<24		62	24	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
N-Propylbenzene	<26		62	26	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50

Client Sample ID: TP-17 STA 166+25 0-1.5'
Lab Sample ID: 500-247366-17

Date Collected: 03/12/24 12:05
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 88.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<25		62	25	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Styrene	<24		62	24	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
tert-Butylbenzene	<25		62	25	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Tetrachloroethene	<23		62	23	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Toluene	<9.2		16	9.2	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
trans-1,2-Dichloroethene	<22		62	22	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
trans-1,3-Dichloropropene	<23		62	23	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Trichloroethene	<10		31	10	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Trichlorofluoromethane	<27		62	27	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Vinyl chloride	<16		62	16	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50
Xylenes, Total	<14		31	14	ug/Kg	☼	03/12/24 12:05	03/19/24 18:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*75 - 126*	*03/12/24 12:05*	*03/19/24 18:48*	*50*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*	*03/12/24 12:05*	*03/19/24 18:48*	*50*
Dibromofluoromethane (Surr)	*106*		*75 - 120*	*03/12/24 12:05*	*03/19/24 18:48*	*50*
Toluene-d8 (Surr)	*103*		*75 - 120*	*03/12/24 12:05*	*03/19/24 18:48*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<13		140	13	ug/Kg	☼	03/22/24 07:54	03/26/24 20:52	2
2-Methylnaphthalene	<14		140	14	ug/Kg	☼	03/22/24 07:54	03/26/24 20:52	2
Acenaphthene	**29**	**J**	71	15	ug/Kg	☼	03/22/24 07:54	03/26/24 20:52	2
Acenaphthylene	**15**	**J**	71	12	ug/Kg	☼	03/22/24 07:54	03/26/24 20:52	2
Anthracene	**130**		71	15	ug/Kg	☼	03/22/24 07:54	03/26/24 20:52	2
Benzo[a]anthracene	**560**		71	15	ug/Kg	☼	03/22/24 07:54	03/26/24 20:52	2
Benzo[a]pyrene	**710**		71	69	ug/Kg	☼	03/22/24 07:54	03/26/24 20:52	2
Benzo[b]fluoranthene	**1100**		71	68	ug/Kg	☼	03/22/24 07:54	03/26/24 20:52	2
Benzo[g,h,i]perylene	**680**		71	16	ug/Kg	☼	03/22/24 07:54	03/26/24 20:52	2
Benzo[k]fluoranthene	**380**		71	27	ug/Kg	☼	03/22/24 07:54	03/26/24 20:52	2
Chrysene	**780**		71	19	ug/Kg	☼	03/22/24 07:54	03/26/24 20:52	2
Dibenz(a,h)anthracene	**180**		71	71	ug/Kg	☼	03/22/24 07:54	03/26/24 20:52	2
Fluoranthene	**1400**		71	17	ug/Kg	☼	03/22/24 07:54	03/26/24 20:52	2
Fluorene	**32**	**J**	71	21	ug/Kg	☼	03/22/24 07:54	03/26/24 20:52	2
Indeno[1,2,3-cd]pyrene	**870**		71	70	ug/Kg	☼	03/22/24 07:54	03/26/24 20:52	2
Naphthalene	<13		71	13	ug/Kg	☼	03/22/24 07:54	03/26/24 20:52	2
Phenanthrene	**540**		71	16	ug/Kg	☼	03/22/24 07:54	03/26/24 20:52	2
Pyrene	**1100**		71	20	ug/Kg	☼	03/22/24 07:54	03/26/24 20:52	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*60*		*37 - 147*	*03/22/24 07:54*	*03/26/24 20:52*	*2*
2-Fluorobiphenyl (Surr)	*57*		*43 - 145*	*03/22/24 07:54*	*03/26/24 20:52*	*2*
Terphenyl-d14 (Surr)	*62*		*42 - 157*	*03/22/24 07:54*	*03/26/24 20:52*	*2*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.0**		1.1	0.36	mg/Kg	☼	03/20/24 10:21	03/27/24 22:47	1
Barium	**30**	**B**	1.1	0.12	mg/Kg	☼	03/20/24 10:21	03/27/24 22:47	1
Cadmium	**0.31**	**B**	0.21	0.038	mg/Kg	☼	03/20/24 10:21	03/27/24 22:47	1
Chromium	**12**		1.1	0.53	mg/Kg	☼	03/20/24 10:21	03/27/24 22:47	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-17 STA 166+25 0-1.5'
Lab Sample ID: 500-247366-17
Date Collected: 03/12/24 12:05
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 88.6

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**89**		0.53	0.25	mg/Kg	☼	03/20/24 10:21	03/27/24 22:47	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	03/20/24 10:21	03/27/24 22:47	1
Silver	<0.14		0.53	0.14	mg/Kg	☼	03/20/24 10:21	03/27/24 22:47	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.013**	**J**	0.017	0.0091	mg/Kg	☼	03/26/24 16:40	03/27/24 07:52	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-18 STA 170+00 0-1'
Lab Sample ID: 500-247366-18
Date Collected: 03/12/24 12:15
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 83.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		69	32	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
1,1,1-Trichloroethane	<26		69	26	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
1,1,2,2-Tetrachloroethane	<27		69	27	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
1,1,2-Trichloroethane	<24		69	24	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
1,1-Dichloroethane	<28		69	28	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
1,1-Dichloroethene	<27		69	27	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
1,1-Dichloropropene	<21		69	21	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
1,2,3-Trichlorobenzene	<32		69	32	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
1,2,3-Trichloropropane	<29		140	29	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
1,2,4-Trichlorobenzene	<24		69	24	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
1,2,4-Trimethylbenzene	<25		69	25	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
1,2-Dibromo-3-Chloropropane	<140		350	140	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
1,2-Dichlorobenzene	<23		69	23	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
1,2-Dichloroethane	<27		69	27	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
1,2-Dichloropropane	<30		69	30	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
1,3,5-Trimethylbenzene	<26		69	26	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
1,3-Dichlorobenzene	<28		69	28	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
1,3-Dichloropropane	<25		69	25	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
1,4-Dichlorobenzene	<25		69	25	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
2,2-Dichloropropane	<31		350	31	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
2-Chlorotoluene	<22		69	22	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
4-Chlorotoluene	<24		69	24	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
4-Isopropyltoluene	<25		69	25	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Benzene	<10		17	10	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Bromobenzene	<25		69	25	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Bromoform	<33		69	33	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Bromomethane	<55		210	55	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Carbon tetrachloride	<27		69	27	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Chlorobenzene	<27		69	27	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Chlorobromomethane	<30		69	30	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Chlorodibromomethane	<34		69	34	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Chloroethane	<35		350	35	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Chloroform	<26		140	26	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Chloromethane	<22		350	22	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
cis-1,2-Dichloroethene	<28		69	28	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
cis-1,3-Dichloropropene	<29		69	29	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Dibromomethane	<19		69	19	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Dichlorobromomethane	<26		69	26	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Dichlorodifluoromethane	<47		210	47	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Ethylbenzene	<13		17	13	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Ethylene Dibromide	<27		69	27	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Hexachlorobutadiene	<31		69	31	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Isopropyl ether	<19		69	19	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Isopropylbenzene	<27		69	27	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Methyl tert-butyl ether	<27		69	27	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Methylene Chloride	<110		350	110	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Naphthalene	<23		69	23	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
n-Butylbenzene	<27		69	27	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
N-Propylbenzene	<29		69	29	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-18 STA 170+00 0-1'
Lab Sample ID: 500-247366-18
Date Collected: 03/12/24 12:15
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 83.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27		69	27	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Styrene	<27		69	27	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
tert-Butylbenzene	<27		69	27	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Tetrachloroethene	<26		69	26	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Toluene	<10		17	10	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
trans-1,2-Dichloroethene	<24		69	24	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
trans-1,3-Dichloropropene	<25		69	25	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Trichloroethene	<11		35	11	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Trichlorofluoromethane	<30		69	30	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Vinyl chloride	<18		69	18	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50
Xylenes, Total	<15		35	15	ug/Kg	☼	03/12/24 12:15	03/19/24 19:13	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*75 - 126*	*03/12/24 12:15*	*03/19/24 19:13*	*50*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*	*03/12/24 12:15*	*03/19/24 19:13*	*50*
Dibromofluoromethane (Surr)	*108*		*75 - 120*	*03/12/24 12:15*	*03/19/24 19:13*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*03/12/24 12:15*	*03/19/24 19:13*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<14		160	14	ug/Kg	☼	03/22/24 07:54	03/25/24 17:54	2
2-Methylnaphthalene	<16		160	16	ug/Kg	☼	03/22/24 07:54	03/25/24 17:54	2
Acenaphthene	<16		78	16	ug/Kg	☼	03/22/24 07:54	03/25/24 17:54	2
Acenaphthylene	<13		78	13	ug/Kg	☼	03/22/24 07:54	03/25/24 17:54	2
Anthracene	**35**	**J**	78	16	ug/Kg	☼	03/22/24 07:54	03/25/24 17:54	2
Benzo[a]anthracene	**250**		78	17	ug/Kg	☼	03/22/24 07:54	03/25/24 17:54	2
Benzo[a]pyrene	**380**		78	76	ug/Kg	☼	03/22/24 07:54	03/25/24 17:54	2
Benzo[b]fluoranthene	**520**		78	75	ug/Kg	☼	03/22/24 07:54	03/25/24 17:54	2
Benzo[g,h,i]perylene	**410**		78	17	ug/Kg	☼	03/22/24 07:54	03/25/24 17:54	2
Benzo[k]fluoranthene	**160**		78	30	ug/Kg	☼	03/22/24 07:54	03/25/24 17:54	2
Chrysene	**340**		78	21	ug/Kg	☼	03/22/24 07:54	03/25/24 17:54	2
Dibenz(a,h)anthracene	**110**		78	78	ug/Kg	☼	03/22/24 07:54	03/25/24 17:54	2
Fluoranthene	**600**		78	18	ug/Kg	☼	03/22/24 07:54	03/25/24 17:54	2
Fluorene	<23		78	23	ug/Kg	☼	03/22/24 07:54	03/25/24 17:54	2
Indeno[1,2,3-cd]pyrene	**420**		78	77	ug/Kg	☼	03/22/24 07:54	03/25/24 17:54	2
Naphthalene	<14		78	14	ug/Kg	☼	03/22/24 07:54	03/25/24 17:54	2
Phenanthrene	**230**		78	17	ug/Kg	☼	03/22/24 07:54	03/25/24 17:54	2
Pyrene	**510**		78	22	ug/Kg	☼	03/22/24 07:54	03/25/24 17:54	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*67*		*37 - 147*	*03/22/24 07:54*	*03/25/24 17:54*	*2*
2-Fluorobiphenyl (Surr)	*62*		*43 - 145*	*03/22/24 07:54*	*03/25/24 17:54*	*2*
Terphenyl-d14 (Surr)	*71*		*42 - 157*	*03/22/24 07:54*	*03/25/24 17:54*	*2*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.2**		1.0	0.36	mg/Kg	☼	03/20/24 10:21	03/27/24 22:51	1
Barium	**32**	**B**	1.0	0.12	mg/Kg	☼	03/20/24 10:21	03/27/24 22:51	1
Cadmium	**0.17**	**J B**	0.21	0.037	mg/Kg	☼	03/20/24 10:21	03/27/24 22:51	1
Chromium	**23**		1.0	0.51	mg/Kg	☼	03/20/24 10:21	03/27/24 22:51	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-18 STA 170+00 0-1'
Lab Sample ID: 500-247366-18
Date Collected: 03/12/24 12:15
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 83.8

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**11**		0.52	0.24	mg/Kg	☼	03/20/24 10:21	03/27/24 22:51	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	03/20/24 10:21	03/27/24 22:51	1
Silver	<0.13		0.52	0.13	mg/Kg	☼	03/20/24 10:21	03/27/24 22:51	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.014**	**J**	0.019	0.010	mg/Kg	☼	03/26/24 16:40	03/27/24 07:54	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-19 STA 174+00 0-1'
Lab Sample ID: 500-247366-19
Date Collected: 03/12/24 12:25
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 84.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		68	32	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
1,1,1-Trichloroethane	<26		68	26	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
1,1,2,2-Tetrachloroethane	<27		68	27	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
1,1,2-Trichloroethane	<24		68	24	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
1,1-Dichloroethane	<28		68	28	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
1,1-Dichloroethene	<27		68	27	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
1,1-Dichloropropene	<20		68	20	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
1,2,3-Trichlorobenzene	<31		68	31	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
1,2,3-Trichloropropane	<28		140	28	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
1,2,4-Trichlorobenzene	<23		68	23	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
1,2,4-Trimethylbenzene	<24		68	24	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
1,2-Dibromo-3-Chloropropane	<140		340	140	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
1,2-Dichlorobenzene	<23		68	23	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
1,2-Dichloroethane	<27		68	27	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
1,2-Dichloropropane	<29		68	29	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
1,3,5-Trimethylbenzene	<26		68	26	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
1,3-Dichlorobenzene	<27		68	27	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
1,3-Dichloropropane	<25		68	25	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
1,4-Dichlorobenzene	<25		68	25	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
2,2-Dichloropropane	<30		340	30	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
2-Chlorotoluene	<21		68	21	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
4-Chlorotoluene	<24		68	24	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
4-Isopropyltoluene	<25		68	25	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Benzene	<10		17	10	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Bromobenzene	<24		68	24	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Bromoform	<33		68	33	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Bromomethane	<54		210	54	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Carbon tetrachloride	<26		68	26	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Chlorobenzene	<26		68	26	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Chlorobromomethane	<29	*+	68	29	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Chlorodibromomethane	<33		68	33	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Chloroethane	<34		340	34	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Chloroform	<25		140	25	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Chloromethane	<22		340	22	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
cis-1,2-Dichloroethene	<28		68	28	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
cis-1,3-Dichloropropene	<28		68	28	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Dibromomethane	<18		68	18	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Dichlorobromomethane	<25		68	25	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Dichlorodifluoromethane	<46		210	46	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Ethylbenzene	<13		17	13	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Ethylene Dibromide	<26		68	26	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Hexachlorobutadiene	<30		68	30	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Isopropyl ether	<19		68	19	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Isopropylbenzene	<26		68	26	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Methyl tert-butyl ether	<27		68	27	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Methylene Chloride	<110		340	110	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Naphthalene	<23		68	23	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
n-Butylbenzene	<27		68	27	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
N-Propylbenzene	<28		68	28	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50

Client Sample ID: TP-19 STA 174+00 0-1'
Lab Sample ID: 500-247366-19

Date Collected: 03/12/24 12:25
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 84.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27		68	27	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Styrene	<26		68	26	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
tert-Butylbenzene	<27		68	27	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Tetrachloroethene	<25		68	25	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Toluene	<10		17	10	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
trans-1,2-Dichloroethene	<24		68	24	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
trans-1,3-Dichloropropene	<25		68	25	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Trichloroethene	<11	*+	34	11	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Trichlorofluoromethane	<29		68	29	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Vinyl chloride	<18		68	18	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50
Xylenes, Total	<15		34	15	ug/Kg	☼	03/12/24 12:25	03/20/24 12:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*75 - 126*	*03/12/24 12:25*	*03/20/24 12:18*	*50*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*03/12/24 12:25*	*03/20/24 12:18*	*50*
Dibromofluoromethane (Surr)	*113*		*75 - 120*	*03/12/24 12:25*	*03/20/24 12:18*	*50*
Toluene-d8 (Surr)	*88*		*75 - 120*	*03/12/24 12:25*	*03/20/24 12:18*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<14		160	14	ug/Kg	☼	03/22/24 07:54	03/25/24 18:19	2
2-Methylnaphthalene	<16		160	16	ug/Kg	☼	03/22/24 07:54	03/25/24 18:19	2
Acenaphthene	**17**	**J**	78	16	ug/Kg	☼	03/22/24 07:54	03/25/24 18:19	2
Acenaphthylene	<13		78	13	ug/Kg	☼	03/22/24 07:54	03/25/24 18:19	2
Anthracene	**53**	**J**	78	16	ug/Kg	☼	03/22/24 07:54	03/25/24 18:19	2
Benzo[a]anthracene	**340**		78	17	ug/Kg	☼	03/22/24 07:54	03/25/24 18:19	2
Benzo[a]pyrene	**460**		78	76	ug/Kg	☼	03/22/24 07:54	03/25/24 18:19	2
Benzo[b]fluoranthene	**710**		78	75	ug/Kg	☼	03/22/24 07:54	03/25/24 18:19	2
Benzo[g,h,i]perylene	**460**		78	17	ug/Kg	☼	03/22/24 07:54	03/25/24 18:19	2
Benzo[k]fluoranthene	**240**		78	30	ug/Kg	☼	03/22/24 07:54	03/25/24 18:19	2
Chrysene	**470**		78	21	ug/Kg	☼	03/22/24 07:54	03/25/24 18:19	2
Dibenz(a,h)anthracene	**110**		78	78	ug/Kg	☼	03/22/24 07:54	03/25/24 18:19	2
Fluoranthene	**910**		78	18	ug/Kg	☼	03/22/24 07:54	03/25/24 18:19	2
Fluorene	**23**	**J**	78	23	ug/Kg	☼	03/22/24 07:54	03/25/24 18:19	2
Indeno[1,2,3-cd]pyrene	**550**		78	76	ug/Kg	☼	03/22/24 07:54	03/25/24 18:19	2
Naphthalene	**14**	**J**	78	14	ug/Kg	☼	03/22/24 07:54	03/25/24 18:19	2
Phenanthrene	**420**		78	17	ug/Kg	☼	03/22/24 07:54	03/25/24 18:19	2
Pyrene	**780**		78	21	ug/Kg	☼	03/22/24 07:54	03/25/24 18:19	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*70*		*37 - 147*	*03/22/24 07:54*	*03/25/24 18:19*	*2*
2-Fluorobiphenyl (Surr)	*67*		*43 - 145*	*03/22/24 07:54*	*03/25/24 18:19*	*2*
Terphenyl-d14 (Surr)	*85*		*42 - 157*	*03/22/24 07:54*	*03/25/24 18:19*	*2*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.6**		1.0	0.35	mg/Kg	☼	03/20/24 10:21	03/27/24 22:55	1
Barium	**32**	**B**	1.0	0.12	mg/Kg	☼	03/20/24 10:21	03/27/24 22:55	1
Cadmium	**0.22**	**B**	0.20	0.036	mg/Kg	☼	03/20/24 10:21	03/27/24 22:55	1
Chromium	**19**		1.0	0.50	mg/Kg	☼	03/20/24 10:21	03/27/24 22:55	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-19 STA 174+00 0-1'
Lab Sample ID: 500-247366-19
Date Collected: 03/12/24 12:25
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 84.4

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**14**		0.51	0.23	mg/Kg	☼	03/20/24 10:21	03/27/24 22:55	1
Selenium	<0.59		1.0	0.59	mg/Kg	☼	03/20/24 10:21	03/27/24 22:55	1
Silver	<0.13		0.51	0.13	mg/Kg	☼	03/20/24 10:21	03/27/24 22:55	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0098		0.019	0.0098	mg/Kg	☼	03/26/24 16:40	03/27/24 07:56	1

Client: Stantec Consulting Corporation
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Job ID: 500-247366-1

Client Sample ID: DUP-1
Date Collected: 03/12/24 12:26
Date Received: 03/13/24 10:05

Lab Sample ID: 500-247366-20
Matrix: Solid
Percent Solids: 86.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		66	30	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
1,1-Dichloroethane	<27		66	27	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
1,1-Dichloroethene	<26		66	26	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
1,1-Dichloropropene	<20		66	20	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
1,2,3-Trichloropropane	<27		130	27	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
1,2,4-Trichlorobenzene	<22		66	22	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
2,2-Dichloropropane	<29		330	29	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
4-Chlorotoluene	<23		66	23	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
4-Isopropyltoluene	<24		66	24	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Benzene	<9.6		16	9.6	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Bromobenzene	<23		66	23	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Bromoform	<32		66	32	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Bromomethane	<52		200	52	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Chlorobenzene	<25		66	25	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Chlorobromomethane	<28	*+	66	28	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Chlorodibromomethane	<32		66	32	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Chloroethane	<33		330	33	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Chloroform	<24		130	24	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Chloromethane	<21		330	21	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
cis-1,2-Dichloroethene	<27		66	27	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
cis-1,3-Dichloropropene	<27		66	27	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Dibromomethane	<18		66	18	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Dichlorobromomethane	<24		66	24	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Dichlorodifluoromethane	<44		200	44	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Ethylbenzene	<12		16	12	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Ethylene Dibromide	<25		66	25	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Hexachlorobutadiene	<29		66	29	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Isopropyl ether	<18		66	18	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Isopropylbenzene	<25		66	25	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Methyl tert-butyl ether	<26		66	26	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Methylene Chloride	<110		330	110	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Naphthalene	<22		66	22	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
n-Butylbenzene	<26		66	26	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
N-Propylbenzene	<27		66	27	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50

Client Sample ID: DUP-1
Lab Sample ID: 500-247366-20
Date Collected: 03/12/24 12:26
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 86.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<26		66	26	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Styrene	<25		66	25	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
tert-Butylbenzene	<26		66	26	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Tetrachloroethene	<24		66	24	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Toluene	<9.7		16	9.7	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
trans-1,2-Dichloroethene	<23		66	23	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Trichloroethene	<11	*+	33	11	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Trichlorofluoromethane	<28		66	28	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Vinyl chloride	<17		66	17	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50
Xylenes, Total	<14		33	14	ug/Kg	☼	03/12/24 12:26	03/20/24 12:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*75 - 126*	*03/12/24 12:26*	*03/20/24 12:43*	*50*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*03/12/24 12:26*	*03/20/24 12:43*	*50*
Dibromofluoromethane (Surr)	*111*		*75 - 120*	*03/12/24 12:26*	*03/20/24 12:43*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*03/12/24 12:26*	*03/20/24 12:43*	*50*

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-20 STA 177+50 0-1'
Lab Sample ID: 500-247366-21
Date Collected: 03/12/24 12:35
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 89.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		62	29	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
1,1,1-Trichloroethane	<24		62	24	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
1,1,2,2-Tetrachloroethane	<25		62	25	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
1,1,2-Trichloroethane	<22		62	22	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
1,1-Dichloroethane	<26		62	26	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
1,1-Dichloroethene	<24		62	24	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
1,1-Dichloropropene	<19		62	19	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
1,2,3-Trichlorobenzene	<29		62	29	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
1,2,3-Trichloropropane	<26		120	26	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
1,2,4-Trichlorobenzene	<21		62	21	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
1,2,4-Trimethylbenzene	<22		62	22	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
1,2-Dibromo-3-Chloropropane	<120		310	120	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
1,2-Dichlorobenzene	<21		62	21	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
1,2-Dichloroethane	<24		62	24	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
1,2-Dichloropropane	<27		62	27	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
1,3,5-Trimethylbenzene	<24		62	24	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
1,3-Dichlorobenzene	<25		62	25	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
1,3-Dichloropropane	<23		62	23	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
1,4-Dichlorobenzene	<23		62	23	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
2,2-Dichloropropane	<28		310	28	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
2-Chlorotoluene	<20		62	20	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
4-Chlorotoluene	<22		62	22	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
4-Isopropyltoluene	<23		62	23	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Benzene	<9.1		16	9.1	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Bromobenzene	<22		62	22	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Bromoform	<30		62	30	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Bromomethane	<50		190	50	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Carbon tetrachloride	<24		62	24	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Chlorobenzene	<24		62	24	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Chlorobromomethane	<27	*+	62	27	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Chlorodibromomethane	<30		62	30	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Chloroethane	<31		310	31	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Chloroform	<23		120	23	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Chloromethane	<20		310	20	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
cis-1,2-Dichloroethene	<25		62	25	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
cis-1,3-Dichloropropene	<26		62	26	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Dibromomethane	<17		62	17	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Dichlorobromomethane	<23		62	23	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Dichlorodifluoromethane	<42		190	42	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Ethylbenzene	<11		16	11	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Ethylene Dibromide	<24		62	24	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Hexachlorobutadiene	<28		62	28	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Isopropyl ether	<17		62	17	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Isopropylbenzene	<24		62	24	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Methyl tert-butyl ether	<25		62	25	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Methylene Chloride	<100		310	100	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Naphthalene	<21		62	21	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
n-Butylbenzene	<24		62	24	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
N-Propylbenzene	<26		62	26	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50

Client: Stantec Consulting Corporation
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Job ID: 500-247366-1

Client Sample ID: TP-20 STA 177+50 0-1'

Date Collected: 03/12/24 12:35
Date Received: 03/13/24 10:05

Lab Sample ID: 500-247366-21

Matrix: Solid
Percent Solids: 89.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<25		62	25	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Styrene	<24		62	24	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
tert-Butylbenzene	<25		62	25	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Tetrachloroethene	<23		62	23	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Toluene	<9.2		16	9.2	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
trans-1,2-Dichloroethene	<22		62	22	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
trans-1,3-Dichloropropene	<23		62	23	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Trichloroethene	<10	*+	31	10	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Trichlorofluoromethane	<27		62	27	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Vinyl chloride	<16		62	16	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50
Xylenes, Total	<14		31	14	ug/Kg	☼	03/12/24 12:35	03/20/24 13:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*	*03/12/24 12:35*	*03/20/24 13:14*	*50*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*	*03/12/24 12:35*	*03/20/24 13:14*	*50*
Dibromofluoromethane (Surr)	*109*		*75 - 120*	*03/12/24 12:35*	*03/20/24 13:14*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*03/12/24 12:35*	*03/20/24 13:14*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<13		150	13	ug/Kg	☼	03/22/24 07:54	03/26/24 21:41	2
2-Methylnaphthalene	<15		150	15	ug/Kg	☼	03/22/24 07:54	03/26/24 21:41	2
Acenaphthene	<15		74	15	ug/Kg	☼	03/22/24 07:54	03/26/24 21:41	2
Acenaphthylene	<13		74	13	ug/Kg	☼	03/22/24 07:54	03/26/24 21:41	2
Anthracene	**64**	**J**	74	15	ug/Kg	☼	03/22/24 07:54	03/26/24 21:41	2
Benzo[a]anthracene	**200**		74	16	ug/Kg	☼	03/22/24 07:54	03/26/24 21:41	2
Benzo[a]pyrene	**250**		74	72	ug/Kg	☼	03/22/24 07:54	03/26/24 21:41	2
Benzo[b]fluoranthene	**300**		74	71	ug/Kg	☼	03/22/24 07:54	03/26/24 21:41	2
Benzo[g,h,i]perylene	**250**		74	16	ug/Kg	☼	03/22/24 07:54	03/26/24 21:41	2
Benzo[k]fluoranthene	**96**		74	28	ug/Kg	☼	03/22/24 07:54	03/26/24 21:41	2
Chrysene	**230**		74	20	ug/Kg	☼	03/22/24 07:54	03/26/24 21:41	2
Dibenz(a,h)anthracene	<74		74	74	ug/Kg	☼	03/22/24 07:54	03/26/24 21:41	2
Fluoranthene	**480**		74	17	ug/Kg	☼	03/22/24 07:54	03/26/24 21:41	2
Fluorene	<22		74	22	ug/Kg	☼	03/22/24 07:54	03/26/24 21:41	2
Indeno[1,2,3-cd]pyrene	**270**		74	72	ug/Kg	☼	03/22/24 07:54	03/26/24 21:41	2
Naphthalene	<13		74	13	ug/Kg	☼	03/22/24 07:54	03/26/24 21:41	2
Phenanthrene	**230**		74	16	ug/Kg	☼	03/22/24 07:54	03/26/24 21:41	2
Pyrene	**390**		74	20	ug/Kg	☼	03/22/24 07:54	03/26/24 21:41	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*60*		*37 - 147*	*03/22/24 07:54*	*03/26/24 21:41*	*2*
2-Fluorobiphenyl (Surr)	*58*		*43 - 145*	*03/22/24 07:54*	*03/26/24 21:41*	*2*
Terphenyl-d14 (Surr)	*61*		*42 - 157*	*03/22/24 07:54*	*03/26/24 21:41*	*2*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.4**		1.0	0.35	mg/Kg	☼	03/20/24 10:21	03/27/24 23:00	1
Barium	**25**	**B**	1.0	0.12	mg/Kg	☼	03/20/24 10:21	03/27/24 23:00	1
Cadmium	**0.27**	**B**	0.20	0.036	mg/Kg	☼	03/20/24 10:21	03/27/24 23:00	1
Chromium	**11**		1.0	0.50	mg/Kg	☼	03/20/24 10:21	03/27/24 23:00	1

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-20 STA 177+50 0-1'
Lab Sample ID: 500-247366-21
Date Collected: 03/12/24 12:35
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 89.0

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**44**		0.51	0.23	mg/Kg	☼	03/20/24 10:21	03/27/24 23:00	1
Selenium	<0.60		1.0	0.60	mg/Kg	☼	03/20/24 10:21	03/27/24 23:00	1
Silver	<0.13		0.51	0.13	mg/Kg	☼	03/20/24 10:21	03/27/24 23:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0094		0.018	0.0094	mg/Kg	☼	03/26/24 16:40	03/27/24 07:58	1

Client: Stantec Consulting Corporation
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Job ID: 500-247366-1

Client Sample ID: TRIP BLANK

Date Collected: 03/12/24 00:00
Date Received: 03/13/24 10:05

Lab Sample ID: 500-247366-22

Matrix: Solid

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
1,1-Dichloroethane	<21		50	21	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
1,1-Dichloroethene	<20		50	20	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
1,1-Dichloropropene	<15		50	15	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
1,2-Dichloroethane	<20		50	20	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
1,2-Dichloropropane	<21		50	21	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
1,3-Dichloropropane	<18		50	18	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
2,2-Dichloropropane	<22		250	22	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
2-Chlorotoluene	<16		50	16	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
4-Chlorotoluene	<18		50	18	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
4-Isopropyltoluene	<18		50	18	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Benzene	<7.3		13	7.3	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Bromobenzene	<18		50	18	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Bromoform	<24		50	24	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Bromomethane	<40		150	40	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Carbon tetrachloride	<19		50	19	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Chlorobenzene	<19		50	19	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Chlorobromomethane	<21	*+	50	21	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Chlorodibromomethane	<24		50	24	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Chloroethane	<25		250	25	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Chloroform	**30**	**J**	100	19	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Chloromethane	<16		250	16	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Dibromomethane	<14		50	14	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Dichlorobromomethane	<19		50	19	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Ethylene Dibromide	<19		50	19	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Hexachlorobutadiene	<22		50	22	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Isopropyl ether	<14		50	14	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Isopropylbenzene	<19		50	19	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Methylene Chloride	<82		250	82	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Naphthalene	<17		50	17	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
n-Butylbenzene	<19		50	19	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
N-Propylbenzene	<21		50	21	ug/Kg		03/12/24 00:00	03/20/24 13:38	50

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-247366-22
Date Collected: 03/12/24 00:00
Matrix: Solid
Date Received: 03/13/24 10:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<20		50	20	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Styrene	<19		50	19	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
tert-Butylbenzene	<20		50	20	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Tetrachloroethene	<19		50	19	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Toluene	<7.4		13	7.4	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Trichloroethene	<8.2	*+	25	8.2	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Trichlorofluoromethane	<21		50	21	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Vinyl chloride	<13		50	13	ug/Kg		03/12/24 00:00	03/20/24 13:38	50
Xylenes, Total	<11		25	11	ug/Kg		03/12/24 00:00	03/20/24 13:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*75 - 126*	*03/12/24 00:00*	*03/20/24 13:38*	*50*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*03/12/24 00:00*	*03/20/24 13:38*	*50*
Dibromofluoromethane (Surr)	*114*		*75 - 120*	*03/12/24 00:00*	*03/20/24 13:38*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*03/12/24 00:00*	*03/20/24 13:38*	*50*

Definitions/Glossary

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

GC/MS VOA

Prep Batch: 758195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247366-1	TP-1 STA 102+00 0-2'	Total/NA	Solid	5035	
500-247366-2	TP-2 STA 106+00 0-2'	Total/NA	Solid	5035	
500-247366-3	TP-3 STA 110+00 0-2.5'	Total/NA	Solid	5035	
500-247366-4	TP-4 STA 114+00 0-1.5'	Total/NA	Solid	5035	
500-247366-5	TP-5 STA 118+00 0-2'	Total/NA	Solid	5035	
500-247366-6	TP-6 STA 122+00 0-1.5'	Total/NA	Solid	5035	
500-247366-7	TP-7 STA 126+00 0-1.5'	Total/NA	Solid	5035	
500-247366-8	TP-8 STA 130+00 0-1.5'	Total/NA	Solid	5035	
500-247366-9	TP-9 STA 134+00 0-1.5'	Total/NA	Solid	5035	
LB3 500-758195/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-758195/22-A	Lab Control Sample	Total/NA	Solid	5035	
500-247366-8 MS	TP-8 STA 130+00 0-1.5'	Total/NA	Solid	5035	
500-247366-8 MSD	TP-8 STA 130+00 0-1.5'	Total/NA	Solid	5035	

Prep Batch: 758197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247366-10	TP-10 STA 138+00 0-1.5'	Total/NA	Solid	5035	
500-247366-11	TP-11 STA 141+00 0-1'	Total/NA	Solid	5035	
500-247366-12	TP-12 STA 146+00 0-1'	Total/NA	Solid	5035	
500-247366-13	TP-13 STA 150+00 0-1'	Total/NA	Solid	5035	
500-247366-14	TP-14 STA 154+00 0-1'	Total/NA	Solid	5035	
500-247366-15	TP-15 STA 158+00 0-1'	Total/NA	Solid	5035	
500-247366-16	TP-16 STA 163+00 0-1'	Total/NA	Solid	5035	
500-247366-17	TP-17 STA 166+25 0-1.5'	Total/NA	Solid	5035	
500-247366-18	TP-18 STA 170+00 0-1'	Total/NA	Solid	5035	
500-247366-19	TP-19 STA 174+00 0-1'	Total/NA	Solid	5035	
500-247366-20	DUP-1	Total/NA	Solid	5035	
500-247366-21	TP-20 STA 177+50 0-1'	Total/NA	Solid	5035	
500-247366-22	TRIP BLANK	Total/NA	Solid	5035	
LB3 500-758197/14-A	Method Blank	Total/NA	Solid	5035	
LCS 500-758197/15-A	Lab Control Sample	Total/NA	Solid	5035	
500-247366-18 MS	TP-18 STA 170+00 0-1'	Total/NA	Solid	5035	
500-247366-18 MSD	TP-18 STA 170+00 0-1'	Total/NA	Solid	5035	

Analysis Batch: 758218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-758195/21-A	Method Blank	Total/NA	Solid	8260D	758195
MB 500-758218/6	Method Blank	Total/NA	Solid	8260D	
LCS 500-758195/22-A	Lab Control Sample	Total/NA	Solid	8260D	758195
LCS 500-758218/4	Lab Control Sample	Total/NA	Solid	8260D	

Analysis Batch: 758440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247366-1	TP-1 STA 102+00 0-2'	Total/NA	Solid	8260D	758195
500-247366-2	TP-2 STA 106+00 0-2'	Total/NA	Solid	8260D	758195
500-247366-3	TP-3 STA 110+00 0-2.5'	Total/NA	Solid	8260D	758195
500-247366-4	TP-4 STA 114+00 0-1.5'	Total/NA	Solid	8260D	758195
500-247366-5	TP-5 STA 118+00 0-2'	Total/NA	Solid	8260D	758195
500-247366-6	TP-6 STA 122+00 0-1.5'	Total/NA	Solid	8260D	758195
500-247366-7	TP-7 STA 126+00 0-1.5'	Total/NA	Solid	8260D	758195
500-247366-8	TP-8 STA 130+00 0-1.5'	Total/NA	Solid	8260D	758195

GC/MS VOA (Continued)

Analysis Batch: 758440 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-758440/8	Method Blank	Total/NA	Solid	8260D	
LCS 500-758440/5	Lab Control Sample	Total/NA	Solid	8260D	
500-247366-8 MS	TP-8 STA 130+00 0-1.5'	Total/NA	Solid	8260D	758195
500-247366-8 MSD	TP-8 STA 130+00 0-1.5'	Total/NA	Solid	8260D	758195

Analysis Batch: 758850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247366-9	TP-9 STA 134+00 0-1.5'	Total/NA	Solid	8260D	758195
500-247366-10	TP-10 STA 138+00 0-1.5'	Total/NA	Solid	8260D	758197
500-247366-12	TP-12 STA 146+00 0-1'	Total/NA	Solid	8260D	758197
500-247366-13	TP-13 STA 150+00 0-1'	Total/NA	Solid	8260D	758197
500-247366-14	TP-14 STA 154+00 0-1'	Total/NA	Solid	8260D	758197
500-247366-15	TP-15 STA 158+00 0-1'	Total/NA	Solid	8260D	758197
500-247366-16	TP-16 STA 163+00 0-1'	Total/NA	Solid	8260D	758197
500-247366-17	TP-17 STA 166+25 0-1.5'	Total/NA	Solid	8260D	758197
500-247366-18	TP-18 STA 170+00 0-1'	Total/NA	Solid	8260D	758197
LB3 500-758197/14-A	Method Blank	Total/NA	Solid	8260D	758197
MB 500-758850/8	Method Blank	Total/NA	Solid	8260D	
LCS 500-758197/15-A	Lab Control Sample	Total/NA	Solid	8260D	758197
LCS 500-758850/5	Lab Control Sample	Total/NA	Solid	8260D	
500-247366-18 MS	TP-18 STA 170+00 0-1'	Total/NA	Solid	8260D	758197
500-247366-18 MSD	TP-18 STA 170+00 0-1'	Total/NA	Solid	8260D	758197

Analysis Batch: 759063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247366-11	TP-11 STA 141+00 0-1'	Total/NA	Solid	8260D	758197
500-247366-19	TP-19 STA 174+00 0-1'	Total/NA	Solid	8260D	758197
500-247366-20	DUP-1	Total/NA	Solid	8260D	758197
500-247366-21	TP-20 STA 177+50 0-1'	Total/NA	Solid	8260D	758197
500-247366-22	TRIP BLANK	Total/NA	Solid	8260D	758197
MB 500-759063/32	Method Blank	Total/NA	Solid	8260D	
LCS 500-759063/5	Lab Control Sample	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 759498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247366-1	TP-1 STA 102+00 0-2'	Total/NA	Solid	3546	
500-247366-2	TP-2 STA 106+00 0-2'	Total/NA	Solid	3546	
500-247366-3	TP-3 STA 110+00 0-2.5'	Total/NA	Solid	3546	
500-247366-4	TP-4 STA 114+00 0-1.5'	Total/NA	Solid	3546	
500-247366-5	TP-5 STA 118+00 0-2'	Total/NA	Solid	3546	
500-247366-6	TP-6 STA 122+00 0-1.5'	Total/NA	Solid	3546	
500-247366-7	TP-7 STA 126+00 0-1.5'	Total/NA	Solid	3546	
500-247366-8	TP-8 STA 130+00 0-1.5'	Total/NA	Solid	3546	
500-247366-9	TP-9 STA 134+00 0-1.5'	Total/NA	Solid	3546	
500-247366-10	TP-10 STA 138+00 0-1.5'	Total/NA	Solid	3546	
500-247366-11	TP-11 STA 141+00 0-1'	Total/NA	Solid	3546	
500-247366-12	TP-12 STA 146+00 0-1'	Total/NA	Solid	3546	
500-247366-13	TP-13 STA 150+00 0-1'	Total/NA	Solid	3546	
500-247366-14	TP-14 STA 154+00 0-1'	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 759498 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247366-15	TP-15 STA 158+00 0-1'	Total/NA	Solid	3546	
500-247366-16	TP-16 STA 163+00 0-1'	Total/NA	Solid	3546	
500-247366-17	TP-17 STA 166+25 0-1.5'	Total/NA	Solid	3546	
500-247366-18	TP-18 STA 170+00 0-1'	Total/NA	Solid	3546	
500-247366-19	TP-19 STA 174+00 0-1'	Total/NA	Solid	3546	
500-247366-21	TP-20 STA 177+50 0-1'	Total/NA	Solid	3546	
MB 500-759498/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-759498/2-A	Lab Control Sample	Total/NA	Solid	3546	
500-247366-2 MS	TP-2 STA 106+00 0-2'	Total/NA	Solid	3546	
500-247366-2 MSD	TP-2 STA 106+00 0-2'	Total/NA	Solid	3546	

Analysis Batch: 759771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247366-1	TP-1 STA 102+00 0-2'	Total/NA	Solid	8270E	759498
500-247366-2	TP-2 STA 106+00 0-2'	Total/NA	Solid	8270E	759498
500-247366-3	TP-3 STA 110+00 0-2.5'	Total/NA	Solid	8270E	759498
500-247366-4	TP-4 STA 114+00 0-1.5'	Total/NA	Solid	8270E	759498
500-247366-5	TP-5 STA 118+00 0-2'	Total/NA	Solid	8270E	759498
500-247366-6	TP-6 STA 122+00 0-1.5'	Total/NA	Solid	8270E	759498
500-247366-7	TP-7 STA 126+00 0-1.5'	Total/NA	Solid	8270E	759498
500-247366-8	TP-8 STA 130+00 0-1.5'	Total/NA	Solid	8270E	759498
500-247366-9	TP-9 STA 134+00 0-1.5'	Total/NA	Solid	8270E	759498
500-247366-10	TP-10 STA 138+00 0-1.5'	Total/NA	Solid	8270E	759498
500-247366-11	TP-11 STA 141+00 0-1'	Total/NA	Solid	8270E	759498
500-247366-12	TP-12 STA 146+00 0-1'	Total/NA	Solid	8270E	759498
500-247366-13	TP-13 STA 150+00 0-1'	Total/NA	Solid	8270E	759498
500-247366-15	TP-15 STA 158+00 0-1'	Total/NA	Solid	8270E	759498
500-247366-16	TP-16 STA 163+00 0-1'	Total/NA	Solid	8270E	759498
500-247366-18	TP-18 STA 170+00 0-1'	Total/NA	Solid	8270E	759498
500-247366-19	TP-19 STA 174+00 0-1'	Total/NA	Solid	8270E	759498
MB 500-759498/1-A	Method Blank	Total/NA	Solid	8270E	759498
LCS 500-759498/2-A	Lab Control Sample	Total/NA	Solid	8270E	759498
500-247366-2 MS	TP-2 STA 106+00 0-2'	Total/NA	Solid	8270E	759498
500-247366-2 MSD	TP-2 STA 106+00 0-2'	Total/NA	Solid	8270E	759498

Analysis Batch: 759952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247366-14	TP-14 STA 154+00 0-1'	Total/NA	Solid	8270E	759498
500-247366-17	TP-17 STA 166+25 0-1.5'	Total/NA	Solid	8270E	759498
500-247366-21	TP-20 STA 177+50 0-1'	Total/NA	Solid	8270E	759498

Metals

Prep Batch: 759136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247366-1	TP-1 STA 102+00 0-2'	Total/NA	Solid	3050B	
500-247366-2	TP-2 STA 106+00 0-2'	Total/NA	Solid	3050B	
500-247366-3	TP-3 STA 110+00 0-2.5'	Total/NA	Solid	3050B	
500-247366-4	TP-4 STA 114+00 0-1.5'	Total/NA	Solid	3050B	
500-247366-5	TP-5 STA 118+00 0-2'	Total/NA	Solid	3050B	
500-247366-6	TP-6 STA 122+00 0-1.5'	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 759136 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247366-7	TP-7 STA 126+00 0-1.5'	Total/NA	Solid	3050B	
500-247366-8	TP-8 STA 130+00 0-1.5'	Total/NA	Solid	3050B	
500-247366-9	TP-9 STA 134+00 0-1.5'	Total/NA	Solid	3050B	
500-247366-10	TP-10 STA 138+00 0-1.5'	Total/NA	Solid	3050B	
500-247366-11	TP-11 STA 141+00 0-1'	Total/NA	Solid	3050B	
500-247366-12	TP-12 STA 146+00 0-1'	Total/NA	Solid	3050B	
500-247366-13	TP-13 STA 150+00 0-1'	Total/NA	Solid	3050B	
500-247366-14	TP-14 STA 154+00 0-1'	Total/NA	Solid	3050B	
500-247366-15	TP-15 STA 158+00 0-1'	Total/NA	Solid	3050B	
500-247366-16	TP-16 STA 163+00 0-1'	Total/NA	Solid	3050B	
500-247366-17	TP-17 STA 166+25 0-1.5'	Total/NA	Solid	3050B	
500-247366-18	TP-18 STA 170+00 0-1'	Total/NA	Solid	3050B	
500-247366-19	TP-19 STA 174+00 0-1'	Total/NA	Solid	3050B	
500-247366-21	TP-20 STA 177+50 0-1'	Total/NA	Solid	3050B	
MB 500-759136/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-759136/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-247366-1 MS	TP-1 STA 102+00 0-2'	Total/NA	Solid	3050B	
500-247366-1 MSD	TP-1 STA 102+00 0-2'	Total/NA	Solid	3050B	
500-247366-1 DU	TP-1 STA 102+00 0-2'	Total/NA	Solid	3050B	

Prep Batch: 760043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247366-1	TP-1 STA 102+00 0-2'	Total/NA	Solid	7471B	
500-247366-2	TP-2 STA 106+00 0-2'	Total/NA	Solid	7471B	
500-247366-3	TP-3 STA 110+00 0-2.5'	Total/NA	Solid	7471B	
500-247366-4	TP-4 STA 114+00 0-1.5'	Total/NA	Solid	7471B	
500-247366-5	TP-5 STA 118+00 0-2'	Total/NA	Solid	7471B	
500-247366-6	TP-6 STA 122+00 0-1.5'	Total/NA	Solid	7471B	
500-247366-7	TP-7 STA 126+00 0-1.5'	Total/NA	Solid	7471B	
500-247366-8	TP-8 STA 130+00 0-1.5'	Total/NA	Solid	7471B	
500-247366-9	TP-9 STA 134+00 0-1.5'	Total/NA	Solid	7471B	
500-247366-10	TP-10 STA 138+00 0-1.5'	Total/NA	Solid	7471B	
500-247366-11	TP-11 STA 141+00 0-1'	Total/NA	Solid	7471B	
500-247366-12	TP-12 STA 146+00 0-1'	Total/NA	Solid	7471B	
500-247366-13	TP-13 STA 150+00 0-1'	Total/NA	Solid	7471B	
500-247366-14	TP-14 STA 154+00 0-1'	Total/NA	Solid	7471B	
500-247366-15	TP-15 STA 158+00 0-1'	Total/NA	Solid	7471B	
500-247366-16	TP-16 STA 163+00 0-1'	Total/NA	Solid	7471B	
500-247366-17	TP-17 STA 166+25 0-1.5'	Total/NA	Solid	7471B	
500-247366-18	TP-18 STA 170+00 0-1'	Total/NA	Solid	7471B	
500-247366-19	TP-19 STA 174+00 0-1'	Total/NA	Solid	7471B	
500-247366-21	TP-20 STA 177+50 0-1'	Total/NA	Solid	7471B	
MB 500-760043/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-760043/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-247366-11 MS	TP-11 STA 141+00 0-1'	Total/NA	Solid	7471B	
500-247366-11 MSD	TP-11 STA 141+00 0-1'	Total/NA	Solid	7471B	
500-247366-11 DU	TP-11 STA 141+00 0-1'	Total/NA	Solid	7471B	

Analysis Batch: 760171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247366-1	TP-1 STA 102+00 0-2'	Total/NA	Solid	7471B	760043

Metals (Continued)

Analysis Batch: 760171 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247366-2	TP-2 STA 106+00 0-2'	Total/NA	Solid	7471B	760043
500-247366-3	TP-3 STA 110+00 0-2.5'	Total/NA	Solid	7471B	760043
500-247366-4	TP-4 STA 114+00 0-1.5'	Total/NA	Solid	7471B	760043
500-247366-5	TP-5 STA 118+00 0-2'	Total/NA	Solid	7471B	760043
500-247366-6	TP-6 STA 122+00 0-1.5'	Total/NA	Solid	7471B	760043
500-247366-7	TP-7 STA 126+00 0-1.5'	Total/NA	Solid	7471B	760043
500-247366-8	TP-8 STA 130+00 0-1.5'	Total/NA	Solid	7471B	760043
500-247366-9	TP-9 STA 134+00 0-1.5'	Total/NA	Solid	7471B	760043
500-247366-10	TP-10 STA 138+00 0-1.5'	Total/NA	Solid	7471B	760043
500-247366-11	TP-11 STA 141+00 0-1'	Total/NA	Solid	7471B	760043
500-247366-12	TP-12 STA 146+00 0-1'	Total/NA	Solid	7471B	760043
500-247366-13	TP-13 STA 150+00 0-1'	Total/NA	Solid	7471B	760043
500-247366-14	TP-14 STA 154+00 0-1'	Total/NA	Solid	7471B	760043
500-247366-15	TP-15 STA 158+00 0-1'	Total/NA	Solid	7471B	760043
500-247366-16	TP-16 STA 163+00 0-1'	Total/NA	Solid	7471B	760043
500-247366-17	TP-17 STA 166+25 0-1.5'	Total/NA	Solid	7471B	760043
500-247366-18	TP-18 STA 170+00 0-1'	Total/NA	Solid	7471B	760043
500-247366-19	TP-19 STA 174+00 0-1'	Total/NA	Solid	7471B	760043
500-247366-21	TP-20 STA 177+50 0-1'	Total/NA	Solid	7471B	760043
MB 500-760043/12-A	Method Blank	Total/NA	Solid	7471B	760043
LCS 500-760043/13-A	Lab Control Sample	Total/NA	Solid	7471B	760043
500-247366-11 MS	TP-11 STA 141+00 0-1'	Total/NA	Solid	7471B	760043
500-247366-11 MSD	TP-11 STA 141+00 0-1'	Total/NA	Solid	7471B	760043
500-247366-11 DU	TP-11 STA 141+00 0-1'	Total/NA	Solid	7471B	760043

Analysis Batch: 760343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247366-1	TP-1 STA 102+00 0-2'	Total/NA	Solid	6010D	759136
500-247366-2	TP-2 STA 106+00 0-2'	Total/NA	Solid	6010D	759136
500-247366-3	TP-3 STA 110+00 0-2.5'	Total/NA	Solid	6010D	759136
500-247366-4	TP-4 STA 114+00 0-1.5'	Total/NA	Solid	6010D	759136
500-247366-5	TP-5 STA 118+00 0-2'	Total/NA	Solid	6010D	759136
500-247366-6	TP-6 STA 122+00 0-1.5'	Total/NA	Solid	6010D	759136
500-247366-7	TP-7 STA 126+00 0-1.5'	Total/NA	Solid	6010D	759136
500-247366-8	TP-8 STA 130+00 0-1.5'	Total/NA	Solid	6010D	759136
500-247366-9	TP-9 STA 134+00 0-1.5'	Total/NA	Solid	6010D	759136
500-247366-10	TP-10 STA 138+00 0-1.5'	Total/NA	Solid	6010D	759136
500-247366-11	TP-11 STA 141+00 0-1'	Total/NA	Solid	6010D	759136
500-247366-12	TP-12 STA 146+00 0-1'	Total/NA	Solid	6010D	759136
500-247366-13	TP-13 STA 150+00 0-1'	Total/NA	Solid	6010D	759136
500-247366-14	TP-14 STA 154+00 0-1'	Total/NA	Solid	6010D	759136
500-247366-15	TP-15 STA 158+00 0-1'	Total/NA	Solid	6010D	759136
500-247366-16	TP-16 STA 163+00 0-1'	Total/NA	Solid	6010D	759136
500-247366-17	TP-17 STA 166+25 0-1.5'	Total/NA	Solid	6010D	759136
500-247366-18	TP-18 STA 170+00 0-1'	Total/NA	Solid	6010D	759136
500-247366-19	TP-19 STA 174+00 0-1'	Total/NA	Solid	6010D	759136
500-247366-21	TP-20 STA 177+50 0-1'	Total/NA	Solid	6010D	759136
MB 500-759136/1-A	Method Blank	Total/NA	Solid	6010D	759136
LCS 500-759136/2-A	Lab Control Sample	Total/NA	Solid	6010D	759136
500-247366-1 MS	TP-1 STA 102+00 0-2'	Total/NA	Solid	6010D	759136
500-247366-1 MSD	TP-1 STA 102+00 0-2'	Total/NA	Solid	6010D	759136

Metals (Continued)

Analysis Batch: 760343 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247366-1 DU	TP-1 STA 102+00 0-2'	Total/NA	Solid	6010D	759136

General Chemistry

Analysis Batch: 758461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247366-1	TP-1 STA 102+00 0-2'	Total/NA	Solid	Moisture	

Analysis Batch: 758481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247366-2	TP-2 STA 106+00 0-2'	Total/NA	Solid	Moisture	
500-247366-3	TP-3 STA 110+00 0-2.5'	Total/NA	Solid	Moisture	
500-247366-4	TP-4 STA 114+00 0-1.5'	Total/NA	Solid	Moisture	
500-247366-5	TP-5 STA 118+00 0-2'	Total/NA	Solid	Moisture	
500-247366-6	TP-6 STA 122+00 0-1.5'	Total/NA	Solid	Moisture	
500-247366-7	TP-7 STA 126+00 0-1.5'	Total/NA	Solid	Moisture	
500-247366-8	TP-8 STA 130+00 0-1.5'	Total/NA	Solid	Moisture	
500-247366-9	TP-9 STA 134+00 0-1.5'	Total/NA	Solid	Moisture	
500-247366-10	TP-10 STA 138+00 0-1.5'	Total/NA	Solid	Moisture	
500-247366-11	TP-11 STA 141+00 0-1'	Total/NA	Solid	Moisture	
500-247366-12	TP-12 STA 146+00 0-1'	Total/NA	Solid	Moisture	
500-247366-13	TP-13 STA 150+00 0-1'	Total/NA	Solid	Moisture	
500-247366-14	TP-14 STA 154+00 0-1'	Total/NA	Solid	Moisture	
500-247366-15	TP-15 STA 158+00 0-1'	Total/NA	Solid	Moisture	
500-247366-16	TP-16 STA 163+00 0-1'	Total/NA	Solid	Moisture	
500-247366-17	TP-17 STA 166+25 0-1.5'	Total/NA	Solid	Moisture	
500-247366-18	TP-18 STA 170+00 0-1'	Total/NA	Solid	Moisture	
500-247366-19	TP-19 STA 174+00 0-1'	Total/NA	Solid	Moisture	
500-247366-20	DUP-1	Total/NA	Solid	Moisture	
500-247366-21	TP-20 STA 177+50 0-1'	Total/NA	Solid	Moisture	
500-247366-2 DU	TP-2 STA 106+00 0-2'	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-247366-1	TP-1 STA 102+00 0-2'	112	104	109	96
500-247366-2	TP-2 STA 106+00 0-2'	113	100	112	98
500-247366-3	TP-3 STA 110+00 0-2.5'	112	97	110	104
500-247366-4	TP-4 STA 114+00 0-1.5'	112	95	109	99
500-247366-5	TP-5 STA 118+00 0-2'	106	95	103	108
500-247366-6	TP-6 STA 122+00 0-1.5'	113	90	109	98
500-247366-7	TP-7 STA 126+00 0-1.5'	112	95	110	89
500-247366-8	TP-8 STA 130+00 0-1.5'	110	97	111	99
500-247366-8 MS	TP-8 STA 130+00 0-1.5'	109	99	111	99
500-247366-8 MSD	TP-8 STA 130+00 0-1.5'	107	105	104	103
500-247366-9	TP-9 STA 134+00 0-1.5'	126	98	108	108
500-247366-10	TP-10 STA 138+00 0-1.5'	121	104	108	96
500-247366-11	TP-11 STA 141+00 0-1'	116	91	113	97
500-247366-12	TP-12 STA 146+00 0-1'	124	106	109	99
500-247366-13	TP-13 STA 150+00 0-1'	121	104	108	101
500-247366-14	TP-14 STA 154+00 0-1'	122	114	108	92
500-247366-15	TP-15 STA 158+00 0-1'	122	101	109	101
500-247366-16	TP-16 STA 163+00 0-1'	121	106	106	103
500-247366-17	TP-17 STA 166+25 0-1.5'	122	109	106	103
500-247366-18	TP-18 STA 170+00 0-1'	122	100	108	101
500-247366-18 MS	TP-18 STA 170+00 0-1'	121	108	110	95
500-247366-18 MSD	TP-18 STA 170+00 0-1'	120	110	111	104
500-247366-19	TP-19 STA 174+00 0-1'	115	94	113	88
500-247366-20	DUP-1	115	95	111	98
500-247366-21	TP-20 STA 177+50 0-1'	110	97	109	97
500-247366-22	TRIP BLANK	116	95	114	98
LB3 500-758195/21-A	Method Blank	104	106	103	101
LB3 500-758197/14-A	Method Blank	121	107	108	103
LCS 500-758195/22-A	Lab Control Sample	104	100	103	103
LCS 500-758197/15-A	Lab Control Sample	125	102	111	102
LCS 500-758218/4	Lab Control Sample	101	101	102	103
LCS 500-758440/5	Lab Control Sample	114	96	111	99
LCS 500-758850/5	Lab Control Sample	108	101	109	101
LCS 500-759063/5	Lab Control Sample	118	88	116	96
MB 500-758218/6	Method Blank	104	107	101	103
MB 500-758440/8	Method Blank	112	94	106	105
MB 500-758850/8	Method Blank	110	99	99	114
MB 500-759063/32	Method Blank	112	84	112	97

Surrogate Legend

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

Surrogate Summary

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

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

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPHL
Lab Sample ID	Client Sample ID	(37-147)	(43-145)	(42-157)
500-247366-1	TP-1 STA 102+00 0-2'	76	72	83
500-247366-2	TP-2 STA 106+00 0-2'	76	66	76
500-247366-2 MS	TP-2 STA 106+00 0-2'	64	57	68
500-247366-2 MSD	TP-2 STA 106+00 0-2'	55	51	79
500-247366-3	TP-3 STA 110+00 0-2.5'	65	61	67
500-247366-4	TP-4 STA 114+00 0-1.5'	54	50	59
500-247366-5	TP-5 STA 118+00 0-2'	63	62	74
500-247366-6	TP-6 STA 122+00 0-1.5'	57	62	82
500-247366-7	TP-7 STA 126+00 0-1.5'	50	50	71
500-247366-8	TP-8 STA 130+00 0-1.5'	74	67	75
500-247366-9	TP-9 STA 134+00 0-1.5'	68	62	71
500-247366-10	TP-10 STA 138+00 0-1.5'	66	62	68
500-247366-11	TP-11 STA 141+00 0-1'	73	72	91
500-247366-12	TP-12 STA 146+00 0-1'	58	54	70
500-247366-13	TP-13 STA 150+00 0-1'	64	61	74
500-247366-14	TP-14 STA 154+00 0-1'	66	65	77
500-247366-15	TP-15 STA 158+00 0-1'	57	56	70
500-247366-16	TP-16 STA 163+00 0-1'	61	57	66
500-247366-17	TP-17 STA 166+25 0-1.5'	60	57	62
500-247366-18	TP-18 STA 170+00 0-1'	67	62	71
500-247366-19	TP-19 STA 174+00 0-1'	70	67	85
500-247366-21	TP-20 STA 177+50 0-1'	60	58	61
LCS 500-759498/2-A	Lab Control Sample	100	87	88
MB 500-759498/1-A	Method Blank	102	88	99

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)

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

Lab Sample ID: LB3 500-758195/21-A
Matrix: Solid
Analysis Batch: 758218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 758195

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
1,1-Dichloroethane	<21		50	21	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
1,1-Dichloroethene	<20		50	20	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
1,1-Dichloropropene	<15		50	15	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
1,2-Dichloroethane	<20		50	20	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
1,2-Dichloropropane	<21		50	21	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
1,3-Dichloropropane	<18		50	18	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
2,2-Dichloropropane	<22		250	22	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
2-Chlorotoluene	<16		50	16	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
4-Chlorotoluene	<18		50	18	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
4-Isopropyltoluene	<18		50	18	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Benzene	<7.3		13	7.3	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Bromobenzene	<18		50	18	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Bromoform	<24		50	24	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Bromomethane	<40		150	40	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Carbon tetrachloride	<19		50	19	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Chlorobenzene	<19		50	19	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Chlorobromomethane	<21		50	21	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Chlorodibromomethane	<24		50	24	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Chloroethane	<25		250	25	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Chloroform	<19		100	19	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Chloromethane	<16		250	16	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Dibromomethane	<14		50	14	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Dichlorobromomethane	<19		50	19	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Ethylene Dibromide	<19		50	19	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Hexachlorobutadiene	<22		50	22	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Isopropyl ether	<14		50	14	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Isopropylbenzene	<19		50	19	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Methylene Chloride	<82		250	82	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Naphthalene	<17		50	17	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
n-Butylbenzene	<19		50	19	ug/Kg		03/13/24 20:05	03/14/24 10:40	50

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

Lab Sample ID: LB3 500-758195/21-A
Matrix: Solid
Analysis Batch: 758218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 758195

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<21		50	21	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
sec-Butylbenzene	<20		50	20	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Styrene	<19		50	19	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
tert-Butylbenzene	<20		50	20	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Tetrachloroethene	<19		50	19	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Toluene	<7.4		13	7.4	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Trichloroethene	<8.2		25	8.2	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Trichlorofluoromethane	<21		50	21	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Vinyl chloride	<13		50	13	ug/Kg		03/13/24 20:05	03/14/24 10:40	50
Xylenes, Total	<11		25	11	ug/Kg		03/13/24 20:05	03/14/24 10:40	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*	*03/13/24 20:05*	*03/14/24 10:40*	*50*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*	*03/13/24 20:05*	*03/14/24 10:40*	*50*
Dibromofluoromethane (Surr)	*103*		*75 - 120*	*03/13/24 20:05*	*03/14/24 10:40*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*03/13/24 20:05*	*03/14/24 10:40*	*50*

Lab Sample ID: LCS 500-758195/22-A
Matrix: Solid
Analysis Batch: 758218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 758195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	2500	2950		ug/Kg		118	70 - 125
1,1,1-Trichloroethane	2500	3120		ug/Kg		125	70 - 125
1,1,2,2-Tetrachloroethane	2500	2460		ug/Kg		99	62 - 140
1,1,2-Trichloroethane	2500	2630		ug/Kg		105	71 - 130
1,1-Dichloroethane	2500	2950		ug/Kg		118	70 - 125
1,1-Dichloroethene	2500	3020		ug/Kg		121	67 - 122
1,1-Dichloropropene	2500	3060	*+	ug/Kg		122	70 - 121
1,2,3-Trichlorobenzene	2500	2830		ug/Kg		113	51 - 145
1,2,3-Trichloropropane	2500	2410		ug/Kg		97	50 - 133
1,2,4-Trichlorobenzene	2500	2780		ug/Kg		111	57 - 137
1,2,4-Trimethylbenzene	2500	3020		ug/Kg		121	70 - 123
1,2-Dibromo-3-Chloropropane	2500	2420		ug/Kg		97	56 - 123
1,2-Dichlorobenzene	2500	3030		ug/Kg		121	70 - 125
1,2-Dichloroethane	2500	3110		ug/Kg		125	68 - 127
1,2-Dichloropropane	2500	2720		ug/Kg		109	67 - 130
1,3,5-Trimethylbenzene	2500	3090	*+	ug/Kg		124	70 - 123
1,3-Dichlorobenzene	2500	3050		ug/Kg		122	70 - 125
1,3-Dichloropropane	2500	2710		ug/Kg		109	62 - 136
1,4-Dichlorobenzene	2500	3010		ug/Kg		120	70 - 120
2,2-Dichloropropane	2500	3040		ug/Kg		122	58 - 139
2-Chlorotoluene	2500	2960		ug/Kg		119	70 - 125
4-Chlorotoluene	2500	2960		ug/Kg		119	68 - 124
4-Isopropyltoluene	2500	3150	*+	ug/Kg		126	70 - 125
Benzene	2500	2920		ug/Kg		117	70 - 120

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

Lab Sample ID: LCS 500-758195/22-A
Matrix: Solid
Analysis Batch: 758218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 758195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	2500	3130	*+	ug/Kg		125	70 - 122
Bromoform	2500	2580		ug/Kg		103	56 - 132
Bromomethane	2500	3300		ug/Kg		132	40 - 152
Carbon tetrachloride	2500	3160		ug/Kg		127	59 - 133
Chlorobenzene	2500	3010		ug/Kg		120	70 - 120
Chlorobromomethane	2500	3110	*+	ug/Kg		124	65 - 122
Chlorodibromomethane	2500	2750		ug/Kg		110	68 - 125
Chloroethane	2500	3060		ug/Kg		122	48 - 136
Chloroform	2500	3020	*+	ug/Kg		121	70 - 120
Chloromethane	2500	1980		ug/Kg		79	56 - 152
cis-1,2-Dichloroethene	2500	2970		ug/Kg		119	70 - 125
cis-1,3-Dichloropropene	2500	2740		ug/Kg		109	64 - 127
Dibromomethane	2500	2860		ug/Kg		114	70 - 120
Dichlorobromomethane	2500	2970		ug/Kg		119	69 - 120
Dichlorodifluoromethane	2500	1430		ug/Kg		57	40 - 159
Ethylbenzene	2500	2920		ug/Kg		117	70 - 123
Ethylene Dibromide	2500	2790		ug/Kg		111	70 - 125
Hexachlorobutadiene	2500	3240		ug/Kg		130	51 - 150
Isopropylbenzene	2500	3090		ug/Kg		123	70 - 126
Methyl tert-butyl ether	2500	2280		ug/Kg		91	55 - 123
Methylene Chloride	2500	2870		ug/Kg		115	69 - 125
Naphthalene	2500	2560		ug/Kg		102	53 - 144
n-Butylbenzene	2500	2990		ug/Kg		120	68 - 125
N-Propylbenzene	2500	3010		ug/Kg		120	69 - 127
sec-Butylbenzene	2500	3100	*+	ug/Kg		124	70 - 123
Styrene	2500	2990		ug/Kg		120	70 - 120
tert-Butylbenzene	2500	3150	*+	ug/Kg		126	70 - 121
Tetrachloroethene	2500	3120		ug/Kg		125	70 - 128
Toluene	2500	2860		ug/Kg		114	70 - 125
trans-1,2-Dichloroethene	2500	3100		ug/Kg		124	70 - 125
trans-1,3-Dichloropropene	2500	2590		ug/Kg		103	62 - 128
Trichloroethene	2500	3110		ug/Kg		124	70 - 125
Trichlorofluoromethane	2500	3320	*+	ug/Kg		133	55 - 128
Vinyl chloride	2500	2240		ug/Kg		89	64 - 126
Xylenes, Total	5000	5540		ug/Kg		111	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*
Dibromofluoromethane (Surr)	*103*		*75 - 120*
Toluene-d8 (Surr)	*103*		*75 - 120*

Lab Sample ID: 500-247366-8 MS
Matrix: Solid
Analysis Batch: 758440

Client Sample ID: TP-8 STA 130+00 0-1.5'
Prep Type: Total/NA
Prep Batch: 758195

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<30		3240	3280		ug/Kg	☼	101	70 - 125

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

Lab Sample ID: 500-247366-8 MS
Matrix: Solid
Analysis Batch: 758440

Client Sample ID: TP-8 STA 130+00 0-1.5'
Prep Type: Total/NA
Prep Batch: 758195

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	<25		3240	3450		ug/Kg	☼	107	70 - 125
1,1,2,2-Tetrachloroethane	<26		3240	2570		ug/Kg	☼	79	62 - 140
1,1,2-Trichloroethane	<23		3240	2810		ug/Kg	☼	87	71 - 130
1,1-Dichloroethane	<27		3240	2620		ug/Kg	☼	81	70 - 125
1,1-Dichloroethene	<25		3240	2810		ug/Kg	☼	87	67 - 122
1,1-Dichloropropene	<19	*+	3240	2950		ug/Kg	☼	91	70 - 121
1,2,3-Trichlorobenzene	<30		3240	2520		ug/Kg	☼	78	51 - 145
1,2,3-Trichloropropane	<27		3240	3070		ug/Kg	☼	95	50 - 133
1,2,4-Trichlorobenzene	<22		3240	2460		ug/Kg	☼	76	57 - 137
1,2,4-Trimethylbenzene	<23		3240	2950		ug/Kg	☼	91	70 - 123
1,2-Dibromo-3-Chloropropane	<130		3240	2450		ug/Kg	☼	76	56 - 123
1,2-Dichlorobenzene	<22		3240	3120		ug/Kg	☼	96	70 - 125
1,2-Dichloroethane	<25		3240	3300		ug/Kg	☼	102	68 - 127
1,2-Dichloropropane	<28		3240	2520		ug/Kg	☼	78	67 - 130
1,3,5-Trimethylbenzene	<25	*+	3240	3010		ug/Kg	☼	93	70 - 123
1,3-Dichlorobenzene	<26		3240	3090		ug/Kg	☼	95	70 - 125
1,3-Dichloropropane	<23		3240	2770		ug/Kg	☼	85	62 - 136
1,4-Dichlorobenzene	<24		3240	3070		ug/Kg	☼	95	70 - 120
2,2-Dichloropropane	<29		3240	2870		ug/Kg	☼	89	58 - 139
2-Chlorotoluene	<20		3240	2880		ug/Kg	☼	89	70 - 125
4-Chlorotoluene	<23		3240	2930		ug/Kg	☼	90	68 - 124
4-Isopropyltoluene	<23	*+	3240	2920		ug/Kg	☼	90	70 - 125
Benzene	<9.5		3240	2660		ug/Kg	☼	82	70 - 120
Bromobenzene	<23	*+	3240	3260		ug/Kg	☼	101	70 - 122
Bromoform	<31		3240	2870		ug/Kg	☼	89	56 - 132
Bromomethane	<52		3240	3820		ug/Kg	☼	118	40 - 152
Carbon tetrachloride	<25		3240	3600		ug/Kg	☼	111	59 - 133
Chlorobenzene	<25		3240	3120		ug/Kg	☼	96	70 - 120
Chlorobromomethane	<28	*+	3240	3500		ug/Kg	☼	108	65 - 122
Chlorodibromomethane	<32		3240	3270		ug/Kg	☼	101	68 - 125
Chloroethane	<33		3240	2930		ug/Kg	☼	91	48 - 136
Chloroform	<24	*+	3240	2740		ug/Kg	☼	85	70 - 120
Chloromethane	<21		3240	2580		ug/Kg	☼	80	56 - 152
cis-1,2-Dichloroethene	<26		3240	3010		ug/Kg	☼	93	70 - 125
cis-1,3-Dichloropropene	<27		3240	2750		ug/Kg	☼	85	64 - 127
Dibromomethane	<17		3240	2850		ug/Kg	☼	88	70 - 120
Dichlorobromomethane	<24		3240	2950		ug/Kg	☼	91	69 - 120
Dichlorodifluoromethane	<44		3240	3440		ug/Kg	☼	106	40 - 159
Ethylbenzene	<12		3240	2800		ug/Kg	☼	87	70 - 123
Ethylene Dibromide	<25		3240	3000		ug/Kg	☼	93	70 - 125
Hexachlorobutadiene	<29		3240	1920		ug/Kg	☼	59	51 - 150
Isopropylbenzene	<25		3240	3080		ug/Kg	☼	95	70 - 126
Methyl tert-butyl ether	<26		3240	2510		ug/Kg	☼	77	55 - 123
Methylene Chloride	<110		3240	2500		ug/Kg	☼	77	69 - 125
Naphthalene	<22		3240	2600		ug/Kg	☼	80	53 - 144
n-Butylbenzene	<25		3240	2490		ug/Kg	☼	77	68 - 125
N-Propylbenzene	<27		3240	2800		ug/Kg	☼	86	69 - 127
sec-Butylbenzene	<26	*+	3240	2810		ug/Kg	☼	87	70 - 123
Styrene	<25		3240	2990		ug/Kg	☼	92	70 - 120

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

Lab Sample ID: 500-247366-8 MS
Matrix: Solid
Analysis Batch: 758440

Client Sample ID: TP-8 STA 130+00 0-1.5'
Prep Type: Total/NA
Prep Batch: 758195

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
tert-Butylbenzene	<26	*+	3240	3080		ug/Kg	☼	95	70 - 121
Tetrachloroethene	<24		3240	3200		ug/Kg	☼	99	70 - 128
Toluene	<9.5		3240	2780		ug/Kg	☼	86	70 - 125
trans-1,2-Dichloroethene	<23		3240	2780		ug/Kg	☼	86	70 - 125
trans-1,3-Dichloropropene	<23		3240	2840		ug/Kg	☼	88	62 - 128
Trichloroethene	<11		3240	3610		ug/Kg	☼	111	70 - 125
Trichlorofluoromethane	<28	*+	3240	3580		ug/Kg	☼	111	55 - 128
Vinyl chloride	<17		3240	2660		ug/Kg	☼	82	64 - 126
Xylenes, Total	<14		6480	5520		ug/Kg	☼	85	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane (Surr)	*111*		*75 - 120*
Toluene-d8 (Surr)	*99*		*75 - 120*

Lab Sample ID: 500-247366-8 MSD
Matrix: Solid
Analysis Batch: 758440

Client Sample ID: TP-8 STA 130+00 0-1.5'
Prep Type: Total/NA
Prep Batch: 758195

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<30		3240	3540		ug/Kg	☼	109	70 - 125	8	30
1,1,1-Trichloroethane	<25		3240	3530		ug/Kg	☼	109	70 - 125	2	30
1,1,2,2-Tetrachloroethane	<26		3240	3040		ug/Kg	☼	94	62 - 140	17	30
1,1,2-Trichloroethane	<23		3240	3200		ug/Kg	☼	99	71 - 130	13	30
1,1-Dichloroethane	<27		3240	2860		ug/Kg	☼	88	70 - 125	9	30
1,1-Dichloroethene	<25		3240	3080		ug/Kg	☼	95	67 - 122	9	30
1,1-Dichloropropene	<19	*+	3240	3090		ug/Kg	☼	95	70 - 121	5	30
1,2,3-Trichlorobenzene	<30		3240	3260		ug/Kg	☼	101	51 - 145	26	30
1,2,3-Trichloropropane	<27		3240	3830		ug/Kg	☼	118	50 - 133	22	30
1,2,4-Trichlorobenzene	<22		3240	2970		ug/Kg	☼	92	57 - 137	19	30
1,2,4-Trimethylbenzene	<23		3240	3330		ug/Kg	☼	103	70 - 123	12	30
1,2-Dibromo-3-Chloropropane	<130		3240	2920		ug/Kg	☼	90	56 - 123	17	30
1,2-Dichlorobenzene	<22		3240	3540		ug/Kg	☼	109	70 - 125	13	30
1,2-Dichloroethane	<25		3240	3560		ug/Kg	☼	110	68 - 127	8	30
1,2-Dichloropropane	<28		3240	2910		ug/Kg	☼	90	67 - 130	14	30
1,3,5-Trimethylbenzene	<25	*+	3240	3420		ug/Kg	☼	106	70 - 123	13	30
1,3-Dichlorobenzene	<26		3240	3530		ug/Kg	☼	109	70 - 125	13	30
1,3-Dichloropropane	<23		3240	3190		ug/Kg	☼	99	62 - 136	14	30
1,4-Dichlorobenzene	<24		3240	3500		ug/Kg	☼	108	70 - 120	13	30
2,2-Dichloropropane	<29		3240	2970		ug/Kg	☼	92	58 - 139	3	30
2-Chlorotoluene	<20		3240	3320		ug/Kg	☼	103	70 - 125	14	30
4-Chlorotoluene	<23		3240	3360		ug/Kg	☼	104	68 - 124	14	30
4-Isopropyltoluene	<23	*+	3240	3370		ug/Kg	☼	104	70 - 125	14	30
Benzene	<9.5		3240	2780		ug/Kg	☼	86	70 - 120	4	30
Bromobenzene	<23	*+	3240	3850		ug/Kg	☼	119	70 - 122	17	30
Bromoform	<31		3240	3180		ug/Kg	☼	98	56 - 132	10	30
Bromomethane	<52		3240	3780		ug/Kg	☼	117	40 - 152	1	30

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

Lab Sample ID: 500-247366-8 MSD
Matrix: Solid
Analysis Batch: 758440

Client Sample ID: TP-8 STA 130+00 0-1.5'
Prep Type: Total/NA
Prep Batch: 758195

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	<25		3240	3720		ug/Kg	☼	115	59 - 133	3	30
Chlorobenzene	<25		3240	3470		ug/Kg	☼	107	70 - 120	11	30
Chlorobromomethane	<28	*+	3240	3560		ug/Kg	☼	110	65 - 122	2	30
Chlorodibromomethane	<32		3240	3740		ug/Kg	☼	115	68 - 125	13	30
Chloroethane	<33		3240	2800		ug/Kg	☼	87	48 - 136	5	30
Chloroform	<24	*+	3240	2790		ug/Kg	☼	86	70 - 120	2	30
Chloromethane	<21		3240	2590		ug/Kg	☼	80	56 - 152	1	30
cis-1,2-Dichloroethene	<26		3240	3030		ug/Kg	☼	94	70 - 125	1	30
cis-1,3-Dichloropropene	<27		3240	3220		ug/Kg	☼	99	64 - 127	16	30
Dibromomethane	<17		3240	3370		ug/Kg	☼	104	70 - 120	17	30
Dichlorobromomethane	<24		3240	3470		ug/Kg	☼	107	69 - 120	16	30
Dichlorodifluoromethane	<44		3240	3450		ug/Kg	☼	106	40 - 159	0	30
Ethylbenzene	<12		3240	3070		ug/Kg	☼	95	70 - 123	9	30
Ethylene Dibromide	<25		3240	3400		ug/Kg	☼	105	70 - 125	13	30
Hexachlorobutadiene	<29		3240	2430		ug/Kg	☼	75	51 - 150	23	30
Isopropylbenzene	<25		3240	3580		ug/Kg	☼	110	70 - 126	15	30
Methyl tert-butyl ether	<26		3240	2870		ug/Kg	☼	89	55 - 123	14	30
Methylene Chloride	<110		3240	2680		ug/Kg	☼	83	69 - 125	7	30
Naphthalene	<22		3240	3250		ug/Kg	☼	100	53 - 144	23	30
n-Butylbenzene	<25		3240	2880		ug/Kg	☼	89	68 - 125	15	30
N-Propylbenzene	<27		3240	3260		ug/Kg	☼	101	69 - 127	15	30
sec-Butylbenzene	<26	*+	3240	3270		ug/Kg	☼	101	70 - 123	15	30
Styrene	<25		3240	3240		ug/Kg	☼	100	70 - 120	8	30
tert-Butylbenzene	<26	*+	3240	3570		ug/Kg	☼	110	70 - 121	15	30
Tetrachloroethene	<24		3240	3530		ug/Kg	☼	109	70 - 128	10	30
Toluene	<9.5		3240	3170		ug/Kg	☼	98	70 - 125	13	30
trans-1,2-Dichloroethene	<23		3240	3020		ug/Kg	☼	93	70 - 125	8	30
trans-1,3-Dichloropropene	<23		3240	3270		ug/Kg	☼	101	62 - 128	14	30
Trichloroethene	<11		3240	3850		ug/Kg	☼	119	70 - 125	6	30
Trichlorofluoromethane	<28	*+	3240	3580		ug/Kg	☼	111	55 - 128	0	30
Vinyl chloride	<17		3240	2630		ug/Kg	☼	81	64 - 126	1	30
Xylenes, Total	<14		6480	5960		ug/Kg	☼	92	70 - 125	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*
Dibromofluoromethane (Surr)	*104*		*75 - 120*
Toluene-d8 (Surr)	*103*		*75 - 120*

Lab Sample ID: LB3 500-758197/14-A
Matrix: Solid
Analysis Batch: 758850

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 758197

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		03/13/24 20:05	03/19/24 19:37	50

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

Lab Sample ID: LB3 500-758197/14-A
Matrix: Solid
Analysis Batch: 758850

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 758197

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<21		50	21	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
1,1-Dichloroethene	<20		50	20	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
1,1-Dichloropropene	<15		50	15	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
1,2-Dichloroethane	<20		50	20	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
1,2-Dichloropropane	<21		50	21	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
1,3-Dichloropropane	<18		50	18	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
2,2-Dichloropropane	<22		250	22	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
2-Chlorotoluene	<16		50	16	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
4-Chlorotoluene	<18		50	18	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
4-Isopropyltoluene	<18		50	18	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Benzene	<7.3		13	7.3	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Bromobenzene	<18		50	18	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Bromoform	<24		50	24	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Bromomethane	<40		150	40	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Carbon tetrachloride	<19		50	19	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Chlorobenzene	<19		50	19	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Chlorobromomethane	<21		50	21	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Chlorodibromomethane	<24		50	24	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Chloroethane	<25		250	25	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Chloroform	<19		100	19	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Chloromethane	<16		250	16	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Dibromomethane	<14		50	14	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Dichlorobromomethane	<19		50	19	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Ethylene Dibromide	<19		50	19	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Hexachlorobutadiene	<22		50	22	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Isopropyl ether	<14		50	14	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Isopropylbenzene	<19		50	19	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Methylene Chloride	<82		250	82	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Naphthalene	<17		50	17	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
n-Butylbenzene	<19		50	19	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
N-Propylbenzene	<21		50	21	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
sec-Butylbenzene	<20		50	20	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Styrene	<19		50	19	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
tert-Butylbenzene	<20		50	20	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Tetrachloroethene	<19		50	19	ug/Kg		03/13/24 20:05	03/19/24 19:37	50

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

Lab Sample ID: LB3 500-758197/14-A
Matrix: Solid
Analysis Batch: 758850

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 758197

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<7.4		13	7.4	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Trichloroethene	<8.2		25	8.2	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Trichlorofluoromethane	<21		50	21	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Vinyl chloride	<13		50	13	ug/Kg		03/13/24 20:05	03/19/24 19:37	50
Xylenes, Total	<11		25	11	ug/Kg		03/13/24 20:05	03/19/24 19:37	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*75 - 126*	*03/13/24 20:05*	*03/19/24 19:37*	*50*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*	*03/13/24 20:05*	*03/19/24 19:37*	*50*
Dibromofluoromethane (Surr)	*108*		*75 - 120*	*03/13/24 20:05*	*03/19/24 19:37*	*50*
Toluene-d8 (Surr)	*103*		*75 - 120*	*03/13/24 20:05*	*03/19/24 19:37*	*50*

Lab Sample ID: LCS 500-758197/15-A
Matrix: Solid
Analysis Batch: 758850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 758197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	2500	2520		ug/Kg		101	70 - 125
1,1,1-Trichloroethane	2500	2680		ug/Kg		107	70 - 125
1,1,2,2-Tetrachloroethane	2500	2120		ug/Kg		85	62 - 140
1,1,2-Trichloroethane	2500	2270		ug/Kg		91	71 - 130
1,1-Dichloroethane	2500	2280		ug/Kg		91	70 - 125
1,1-Dichloroethene	2500	2190		ug/Kg		88	67 - 122
1,1-Dichloropropene	2500	2330		ug/Kg		93	70 - 121
1,2,3-Trichlorobenzene	2500	1820		ug/Kg		73	51 - 145
1,2,3-Trichloropropane	2500	2480		ug/Kg		99	50 - 133
1,2,4-Trichlorobenzene	2500	1800		ug/Kg		72	57 - 137
1,2,4-Trimethylbenzene	2500	2420		ug/Kg		97	70 - 123
1,2-Dibromo-3-Chloropropane	2500	2010		ug/Kg		80	56 - 123
1,2-Dichlorobenzene	2500	2450		ug/Kg		98	70 - 125
1,2-Dichloroethane	2500	2910		ug/Kg		116	68 - 127
1,2-Dichloropropane	2500	2240		ug/Kg		90	67 - 130
1,3,5-Trimethylbenzene	2500	2460		ug/Kg		99	70 - 123
1,3-Dichlorobenzene	2500	2440		ug/Kg		98	70 - 125
1,3-Dichloropropane	2500	2300		ug/Kg		92	62 - 136
1,4-Dichlorobenzene	2500	2390		ug/Kg		96	70 - 120
2,2-Dichloropropane	2500	2400		ug/Kg		96	58 - 139
2-Chlorotoluene	2500	2380		ug/Kg		95	70 - 125
4-Chlorotoluene	2500	2400		ug/Kg		96	68 - 124
4-Isopropyltoluene	2500	2410		ug/Kg		96	70 - 125
Benzene	2500	2100		ug/Kg		84	70 - 120
Bromobenzene	2500	2520		ug/Kg		101	70 - 122
Bromoform	2500	2160		ug/Kg		86	56 - 132
Bromomethane	2500	2610		ug/Kg		104	40 - 152
Carbon tetrachloride	2500	2740		ug/Kg		109	59 - 133
Chlorobenzene	2500	2420		ug/Kg		97	70 - 120

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

Lab Sample ID: LCS 500-758197/15-A
Matrix: Solid
Analysis Batch: 758850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 758197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobromomethane	2500	2620		ug/Kg		105	65 - 122
Chlorodibromomethane	2500	2500		ug/Kg		100	68 - 125
Chloroethane	2500	2150		ug/Kg		86	48 - 136
Chloroform	2500	2150		ug/Kg		86	70 - 120
Chloromethane	2500	1510		ug/Kg		60	56 - 152
cis-1,2-Dichloroethene	2500	2280		ug/Kg		91	70 - 125
cis-1,3-Dichloropropene	2500	2250		ug/Kg		90	64 - 127
Dibromomethane	2500	2490		ug/Kg		100	70 - 120
Dichlorobromomethane	2500	2520		ug/Kg		101	69 - 120
Dichlorodifluoromethane	2500	1310		ug/Kg		52	40 - 159
Ethylbenzene	2500	2270		ug/Kg		91	70 - 123
Ethylene Dibromide	2500	2390		ug/Kg		95	70 - 125
Hexachlorobutadiene	2500	1570		ug/Kg		63	51 - 150
Isopropylbenzene	2500	2480		ug/Kg		99	70 - 126
Methyl tert-butyl ether	2500	2410		ug/Kg		96	55 - 123
Methylene Chloride	2500	2130		ug/Kg		85	69 - 125
Naphthalene	2500	1990		ug/Kg		80	53 - 144
n-Butylbenzene	2500	2150		ug/Kg		86	68 - 125
N-Propylbenzene	2500	2320		ug/Kg		93	69 - 127
sec-Butylbenzene	2500	2370		ug/Kg		95	70 - 123
Styrene	2500	2360		ug/Kg		94	70 - 120
tert-Butylbenzene	2500	2510		ug/Kg		100	70 - 121
Tetrachloroethene	2500	2360		ug/Kg		94	70 - 128
Toluene	2500	2170		ug/Kg		87	70 - 125
trans-1,2-Dichloroethene	2500	2220		ug/Kg		89	70 - 125
trans-1,3-Dichloropropene	2500	2370		ug/Kg		95	62 - 128
Trichloroethene	2500	2630		ug/Kg		105	70 - 125
Trichlorofluoromethane	2500	2560		ug/Kg		102	55 - 128
Vinyl chloride	2500	1760		ug/Kg		70	64 - 126
Xylenes, Total	5000	4500		ug/Kg		90	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*125*		*75 - 126*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*
Dibromofluoromethane (Surr)	*111*		*75 - 120*
Toluene-d8 (Surr)	*102*		*75 - 120*

Lab Sample ID: 500-247366-18 MS
Matrix: Solid
Analysis Batch: 758850

Client Sample ID: TP-18 STA 170+00 0-1'
Prep Type: Total/NA
Prep Batch: 758197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<32		3450	3690		ug/Kg	☼	107	70 - 125
1,1,1-Trichloroethane	<26		3450	3960		ug/Kg	☼	115	70 - 125
1,1,2,2-Tetrachloroethane	<27		3450	3310		ug/Kg	☼	96	62 - 140
1,1,2-Trichloroethane	<24		3450	3070		ug/Kg	☼	89	71 - 130
1,1-Dichloroethane	<28		3450	3330		ug/Kg	☼	96	70 - 125
1,1-Dichloroethene	<27		3450	3330		ug/Kg	☼	97	67 - 122

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

Lab Sample ID: 500-247366-18 MS
Client Sample ID: TP-18 STA 170+00 0-1'
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 758850
Prep Batch: 758197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloropropene	<21		3450	3440		ug/Kg	☼	100	70 - 121
1,2,3-Trichlorobenzene	<32		3450	3400		ug/Kg	☼	98	51 - 145
1,2,3-Trichloropropane	<29		3450	3880		ug/Kg	☼	112	50 - 133
1,2,4-Trichlorobenzene	<24		3450	3250		ug/Kg	☼	94	57 - 137
1,2,4-Trimethylbenzene	<25		3450	3600		ug/Kg	☼	104	70 - 123
1,2-Dibromo-3-Chloropropane	<140		3450	3350		ug/Kg	☼	97	56 - 123
1,2-Dichlorobenzene	<23		3450	3740		ug/Kg	☼	108	70 - 125
1,2-Dichloroethane	<27		3450	4260		ug/Kg	☼	124	68 - 127
1,2-Dichloropropane	<30		3450	3270		ug/Kg	☼	95	67 - 130
1,3,5-Trimethylbenzene	<26		3450	3870		ug/Kg	☼	112	70 - 123
1,3-Dichlorobenzene	<28		3450	3650		ug/Kg	☼	106	70 - 125
1,3-Dichloropropane	<25		3450	3110		ug/Kg	☼	90	62 - 136
1,4-Dichlorobenzene	<25		3450	3580		ug/Kg	☼	104	70 - 120
2,2-Dichloropropane	<31		3450	3530		ug/Kg	☼	102	58 - 139
2-Chlorotoluene	<22		3450	3690		ug/Kg	☼	107	70 - 125
4-Chlorotoluene	<24		3450	3710		ug/Kg	☼	107	68 - 124
4-Isopropyltoluene	<25		3450	3560		ug/Kg	☼	103	70 - 125
Benzene	<10		3450	3080		ug/Kg	☼	89	70 - 120
Bromobenzene	<25		3450	4040		ug/Kg	☼	117	70 - 122
Bromoform	<33		3450	3240		ug/Kg	☼	94	56 - 132
Bromomethane	<55		3450	3690		ug/Kg	☼	107	40 - 152
Carbon tetrachloride	<27		3450	4050		ug/Kg	☼	117	59 - 133
Chlorobenzene	<27		3450	3640		ug/Kg	☼	105	70 - 120
Chlorobromomethane	<30		3450	3690		ug/Kg	☼	107	65 - 122
Chlorodibromomethane	<34		3450	3410		ug/Kg	☼	99	68 - 125
Chloroethane	<35		3450	3080		ug/Kg	☼	89	48 - 136
Chloroform	<26		3450	3160		ug/Kg	☼	92	70 - 120
Chloromethane	<22		3450	2780		ug/Kg	☼	80	56 - 152
cis-1,2-Dichloroethene	<28		3450	3320		ug/Kg	☼	96	70 - 125
cis-1,3-Dichloropropene	<29		3450	3090		ug/Kg	☼	89	64 - 127
Dibromomethane	<19		3450	3580		ug/Kg	☼	104	70 - 120
Dichlorobromomethane	<26		3450	3670		ug/Kg	☼	106	69 - 120
Dichlorodifluoromethane	<47		3450	3360		ug/Kg	☼	97	40 - 159
Ethylbenzene	<13		3450	3350		ug/Kg	☼	97	70 - 123
Ethylene Dibromide	<27		3450	3240		ug/Kg	☼	94	70 - 125
Hexachlorobutadiene	<31		3450	2600		ug/Kg	☼	75	51 - 150
Isopropylbenzene	<27		3450	3920		ug/Kg	☼	113	70 - 126
Methyl tert-butyl ether	<27		3450	3010		ug/Kg	☼	87	55 - 123
Methylene Chloride	<110		3450	3050		ug/Kg	☼	88	69 - 125
Naphthalene	<23		3450	3690		ug/Kg	☼	107	53 - 144
n-Butylbenzene	<27		3450	3220		ug/Kg	☼	93	68 - 125
N-Propylbenzene	<29		3450	3610		ug/Kg	☼	105	69 - 127
sec-Butylbenzene	<27		3450	3460		ug/Kg	☼	100	70 - 123
Styrene	<27		3450	3480		ug/Kg	☼	101	70 - 120
tert-Butylbenzene	<27		3450	3690		ug/Kg	☼	107	70 - 121
Tetrachloroethene	<26		3450	3260		ug/Kg	☼	94	70 - 128
Toluene	<10		3450	3020		ug/Kg	☼	88	70 - 125
trans-1,2-Dichloroethene	<24		3450	3270		ug/Kg	☼	95	70 - 125
trans-1,3-Dichloropropene	<25		3450	3200		ug/Kg	☼	93	62 - 128

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

Lab Sample ID: 500-247366-18 MS
Matrix: Solid
Analysis Batch: 758850

Client Sample ID: TP-18 STA 170+00 0-1'
Prep Type: Total/NA
Prep Batch: 758197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	<11		3450	3840		ug/Kg	☼	111	70 - 125
Trichlorofluoromethane	<30		3450	3880		ug/Kg	☼	112	55 - 128
Vinyl chloride	<18		3450	3000		ug/Kg	☼	87	64 - 126
Xylenes, Total	<15		6900	6610		ug/Kg	☼	96	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*121*		*75 - 126*
4-Bromofluorobenzene (Surr)	*108*		*72 - 124*
Dibromofluoromethane (Surr)	*110*		*75 - 120*
Toluene-d8 (Surr)	*95*		*75 - 120*

Lab Sample ID: 500-247366-18 MSD
Matrix: Solid
Analysis Batch: 758850

Client Sample ID: TP-18 STA 170+00 0-1'
Prep Type: Total/NA
Prep Batch: 758197

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<32		3450	3580		ug/Kg	☼	104	70 - 125	3	30
1,1,1-Trichloroethane	<26		3450	3990		ug/Kg	☼	115	70 - 125	1	30
1,1,2,2-Tetrachloroethane	<27		3450	3250		ug/Kg	☼	94	62 - 140	2	30
1,1,2-Trichloroethane	<24		3450	3230		ug/Kg	☼	94	71 - 130	5	30
1,1-Dichloroethane	<28		3450	3340		ug/Kg	☼	97	70 - 125	0	30
1,1-Dichloroethene	<27		3450	3400		ug/Kg	☼	99	67 - 122	2	30
1,1-Dichloropropene	<21		3450	3470		ug/Kg	☼	101	70 - 121	1	30
1,2,3-Trichlorobenzene	<32		3450	2960		ug/Kg	☼	86	51 - 145	14	30
1,2,3-Trichloropropane	<29		3450	3780		ug/Kg	☼	110	50 - 133	2	30
1,2,4-Trichlorobenzene	<24		3450	2650		ug/Kg	☼	77	57 - 137	20	30
1,2,4-Trimethylbenzene	<25		3450	3410		ug/Kg	☼	99	70 - 123	5	30
1,2-Dibromo-3-Chloropropane	<140		3450	3180		ug/Kg	☼	92	56 - 123	5	30
1,2-Dichlorobenzene	<23		3450	3530		ug/Kg	☼	102	70 - 125	6	30
1,2-Dichloroethane	<27		3450	4080		ug/Kg	☼	118	68 - 127	4	30
1,2-Dichloropropane	<30		3450	3210		ug/Kg	☼	93	67 - 130	2	30
1,3,5-Trimethylbenzene	<26		3450	3490		ug/Kg	☼	101	70 - 123	10	30
1,3-Dichlorobenzene	<28		3450	3530		ug/Kg	☼	102	70 - 125	3	30
1,3-Dichloropropane	<25		3450	3270		ug/Kg	☼	95	62 - 136	5	30
1,4-Dichlorobenzene	<25		3450	3440		ug/Kg	☼	100	70 - 120	4	30
2,2-Dichloropropane	<31		3450	3550		ug/Kg	☼	103	58 - 139	0	30
2-Chlorotoluene	<22		3450	3520		ug/Kg	☼	102	70 - 125	5	30
4-Chlorotoluene	<24		3450	3550		ug/Kg	☼	103	68 - 124	4	30
4-Isopropyltoluene	<25		3450	3240		ug/Kg	☼	94	70 - 125	9	30
Benzene	<10		3450	3060		ug/Kg	☼	89	70 - 120	1	30
Bromobenzene	<25		3450	3840		ug/Kg	☼	111	70 - 122	5	30
Bromoform	<33		3450	3060		ug/Kg	☼	89	56 - 132	6	30
Bromomethane	<55		3450	4350		ug/Kg	☼	126	40 - 152	17	30
Carbon tetrachloride	<27		3450	4030		ug/Kg	☼	117	59 - 133	1	30
Chlorobenzene	<27		3450	3490		ug/Kg	☼	101	70 - 120	4	30
Chlorobromomethane	<30		3450	3750		ug/Kg	☼	109	65 - 122	2	30
Chlorodibromomethane	<34		3450	3660		ug/Kg	☼	106	68 - 125	7	30
Chloroethane	<35		3450	3500		ug/Kg	☼	101	48 - 136	13	30

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

Lab Sample ID: 500-247366-18 MSD
Client Sample ID: TP-18 STA 170+00 0-1'
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 758850
Prep Batch: 758197

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroform	<26		3450	3150		ug/Kg	☼	91	70 - 120	0	30
Chloromethane	<22		3450	3070		ug/Kg	☼	89	56 - 152	10	30
cis-1,2-Dichloroethene	<28		3450	3340		ug/Kg	☼	97	70 - 125	1	30
cis-1,3-Dichloropropene	<29		3450	3320		ug/Kg	☼	96	64 - 127	7	30
Dibromomethane	<19		3450	3470		ug/Kg	☼	100	70 - 120	3	30
Dichlorobromomethane	<26		3450	3620		ug/Kg	☼	105	69 - 120	2	30
Dichlorodifluoromethane	<47		3450	3720		ug/Kg	☼	108	40 - 159	10	30
Ethylbenzene	<13		3450	3220		ug/Kg	☼	93	70 - 123	4	30
Ethylene Dibromide	<27		3450	3440		ug/Kg	☼	100	70 - 125	6	30
Hexachlorobutadiene	<31		3450	2180		ug/Kg	☼	63	51 - 150	17	30
Isopropylbenzene	<27		3450	3710		ug/Kg	☼	108	70 - 126	5	30
Methyl tert-butyl ether	<27		3450	3310		ug/Kg	☼	96	55 - 123	9	30
Methylene Chloride	<110		3450	3130		ug/Kg	☼	91	69 - 125	3	30
Naphthalene	<23		3450	3300		ug/Kg	☼	96	53 - 144	11	30
n-Butylbenzene	<27		3450	2840		ug/Kg	☼	82	68 - 125	13	30
N-Propylbenzene	<29		3450	3370		ug/Kg	☼	98	69 - 127	7	30
sec-Butylbenzene	<27		3450	3250		ug/Kg	☼	94	70 - 123	6	30
Styrene	<27		3450	3290		ug/Kg	☼	95	70 - 120	5	30
tert-Butylbenzene	<27		3450	3580		ug/Kg	☼	104	70 - 121	3	30
Tetrachloroethene	<26		3450	3420		ug/Kg	☼	99	70 - 128	5	30
Toluene	<10		3450	3240		ug/Kg	☼	94	70 - 125	7	30
trans-1,2-Dichloroethene	<24		3450	3370		ug/Kg	☼	97	70 - 125	3	30
trans-1,3-Dichloropropene	<25		3450	3420		ug/Kg	☼	99	62 - 128	7	30
Trichloroethene	<11		3450	3770		ug/Kg	☼	109	70 - 125	2	30
Trichlorofluoromethane	<30		3450	4240		ug/Kg	☼	123	55 - 128	9	30
Vinyl chloride	<18		3450	3360		ug/Kg	☼	97	64 - 126	11	30
Xylenes, Total	<15		6900	6330		ug/Kg	☼	92	70 - 125	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*120*		*75 - 126*
4-Bromofluorobenzene (Surr)	*110*		*72 - 124*
Dibromofluoromethane (Surr)	*111*		*75 - 120*
Toluene-d8 (Surr)	*104*		*75 - 120*

Lab Sample ID: MB 500-758218/6
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 758218

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			03/14/24 09:51	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			03/14/24 09:51	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			03/14/24 09:51	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			03/14/24 09:51	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			03/14/24 09:51	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			03/14/24 09:51	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			03/14/24 09:51	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			03/14/24 09:51	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			03/14/24 09:51	1

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

Lab Sample ID: MB 500-758218/6
Matrix: Solid
Analysis Batch: 758218

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	<0.34		1.0	0.34	ug/Kg			03/14/24 09:51	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			03/14/24 09:51	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			03/14/24 09:51	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			03/14/24 09:51	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			03/14/24 09:51	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			03/14/24 09:51	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			03/14/24 09:51	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			03/14/24 09:51	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			03/14/24 09:51	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			03/14/24 09:51	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/Kg			03/14/24 09:51	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			03/14/24 09:51	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			03/14/24 09:51	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			03/14/24 09:51	1
Benzene	<0.15		0.25	0.15	ug/Kg			03/14/24 09:51	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			03/14/24 09:51	1
Bromoform	<0.48		1.0	0.48	ug/Kg			03/14/24 09:51	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			03/14/24 09:51	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			03/14/24 09:51	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			03/14/24 09:51	1
Chlorobromomethane	<0.43		1.0	0.43	ug/Kg			03/14/24 09:51	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/Kg			03/14/24 09:51	1
Chloroethane	<0.50		5.0	0.50	ug/Kg			03/14/24 09:51	1
Chloroform	<0.37		2.0	0.37	ug/Kg			03/14/24 09:51	1
Chloromethane	<0.32		5.0	0.32	ug/Kg			03/14/24 09:51	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			03/14/24 09:51	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			03/14/24 09:51	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			03/14/24 09:51	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/Kg			03/14/24 09:51	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			03/14/24 09:51	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			03/14/24 09:51	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/Kg			03/14/24 09:51	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			03/14/24 09:51	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			03/14/24 09:51	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			03/14/24 09:51	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			03/14/24 09:51	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			03/14/24 09:51	1
Naphthalene	0.400	J	1.0	0.33	ug/Kg			03/14/24 09:51	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			03/14/24 09:51	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			03/14/24 09:51	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			03/14/24 09:51	1
Styrene	<0.39		1.0	0.39	ug/Kg			03/14/24 09:51	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			03/14/24 09:51	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			03/14/24 09:51	1
Toluene	<0.15		0.25	0.15	ug/Kg			03/14/24 09:51	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			03/14/24 09:51	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			03/14/24 09:51	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			03/14/24 09:51	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			03/14/24 09:51	1

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

Lab Sample ID: MB 500-758218/6
Matrix: Solid
Analysis Batch: 758218

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			03/14/24 09:51	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			03/14/24 09:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*		*03/14/24 09:51*	*1*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*		*03/14/24 09:51*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 120*		*03/14/24 09:51*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*03/14/24 09:51*	*1*

Lab Sample ID: LCS 500-758218/4
Matrix: Solid
Analysis Batch: 758218

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	44.6		ug/Kg		89	70 - 125
1,1,1-Trichloroethane	50.0	46.9		ug/Kg		94	70 - 125
1,1,2,2-Tetrachloroethane	50.0	38.5		ug/Kg		77	62 - 140
1,1,2-Trichloroethane	50.0	40.5		ug/Kg		81	71 - 130
1,1-Dichloroethane	50.0	43.0		ug/Kg		86	70 - 125
1,1-Dichloroethene	50.0	46.8		ug/Kg		94	67 - 122
1,1-Dichloropropene	50.0	46.0		ug/Kg		92	70 - 121
1,2,3-Trichlorobenzene	50.0	45.2		ug/Kg		90	51 - 145
1,2,3-Trichloropropane	50.0	38.0		ug/Kg		76	50 - 133
1,2,4-Trichlorobenzene	50.0	44.2		ug/Kg		88	57 - 137
1,2,4-Trimethylbenzene	50.0	45.5		ug/Kg		91	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	37.0		ug/Kg		74	56 - 123
1,2-Dichlorobenzene	50.0	45.4		ug/Kg		91	70 - 125
1,2-Dichloroethane	50.0	45.2		ug/Kg		90	68 - 127
1,2-Dichloropropane	50.0	39.8		ug/Kg		80	67 - 130
1,3,5-Trimethylbenzene	50.0	46.7		ug/Kg		93	70 - 123
1,3-Dichlorobenzene	50.0	46.2		ug/Kg		92	70 - 125
1,3-Dichloropropane	50.0	41.1		ug/Kg		82	62 - 136
1,4-Dichlorobenzene	50.0	45.9		ug/Kg		92	70 - 120
2,2-Dichloropropane	50.0	48.8		ug/Kg		98	58 - 139
2-Chlorotoluene	50.0	44.7		ug/Kg		89	70 - 125
4-Chlorotoluene	50.0	44.7		ug/Kg		89	68 - 124
4-Isopropyltoluene	50.0	48.1		ug/Kg		96	70 - 125
Benzene	50.0	42.8		ug/Kg		86	70 - 120
Bromobenzene	50.0	44.9		ug/Kg		90	70 - 122
Bromoform	50.0	40.8		ug/Kg		82	56 - 132
Bromomethane	50.0	62.5		ug/Kg		125	40 - 152
Carbon tetrachloride	50.0	46.6		ug/Kg		93	59 - 133
Chlorobenzene	50.0	45.0		ug/Kg		90	70 - 120
Chlorobromomethane	50.0	44.7		ug/Kg		89	65 - 122
Chlorodibromomethane	50.0	41.5		ug/Kg		83	68 - 125
Chloroethane	50.0	54.6		ug/Kg		109	48 - 136
Chloroform	50.0	43.9		ug/Kg		88	70 - 120
Chloromethane	50.0	44.3		ug/Kg		89	56 - 152

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

Lab Sample ID: LCS 500-758218/4
Matrix: Solid
Analysis Batch: 758218

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	50.0	43.1		ug/Kg		86	70 - 125
cis-1,3-Dichloropropene	50.0	40.7		ug/Kg		81	64 - 127
Dibromomethane	50.0	42.1		ug/Kg		84	70 - 120
Dichlorobromomethane	50.0	42.6		ug/Kg		85	69 - 120
Dichlorodifluoromethane	50.0	49.8		ug/Kg		100	40 - 159
Ethylbenzene	50.0	44.2		ug/Kg		88	70 - 123
Ethylene Dibromide	50.0	41.6		ug/Kg		83	70 - 125
Hexachlorobutadiene	50.0	50.7		ug/Kg		101	51 - 150
Isopropylbenzene	50.0	46.6		ug/Kg		93	70 - 126
Methyl tert-butyl ether	50.0	34.9		ug/Kg		70	55 - 123
Methylene Chloride	50.0	42.9		ug/Kg		86	69 - 125
Naphthalene	50.0	38.4		ug/Kg		77	53 - 144
n-Butylbenzene	50.0	47.8		ug/Kg		96	68 - 125
N-Propylbenzene	50.0	46.8		ug/Kg		94	69 - 127
sec-Butylbenzene	50.0	47.6		ug/Kg		95	70 - 123
Styrene	50.0	44.9		ug/Kg		90	70 - 120
tert-Butylbenzene	50.0	47.3		ug/Kg		95	70 - 121
Tetrachloroethene	50.0	47.2		ug/Kg		94	70 - 128
Toluene	50.0	42.1		ug/Kg		84	70 - 125
trans-1,2-Dichloroethene	50.0	47.0		ug/Kg		94	70 - 125
trans-1,3-Dichloropropene	50.0	39.7		ug/Kg		79	62 - 128
Trichloroethene	50.0	45.3		ug/Kg		91	70 - 125
Trichlorofluoromethane	50.0	57.3		ug/Kg		115	55 - 128
Vinyl chloride	50.0	47.6		ug/Kg		95	64 - 126
Xylenes, Total	100	84.7		ug/Kg		85	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*
Dibromofluoromethane (Surr)	*102*		*75 - 120*
Toluene-d8 (Surr)	*103*		*75 - 120*

Lab Sample ID: MB 500-758440/8
Matrix: Solid
Analysis Batch: 758440

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			03/15/24 12:05	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			03/15/24 12:05	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			03/15/24 12:05	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			03/15/24 12:05	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			03/15/24 12:05	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			03/15/24 12:05	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			03/15/24 12:05	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			03/15/24 12:05	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			03/15/24 12:05	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			03/15/24 12:05	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			03/15/24 12:05	1

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

Lab Sample ID: MB 500-758440/8
Matrix: Solid
Analysis Batch: 758440

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			03/15/24 12:05	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			03/15/24 12:05	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			03/15/24 12:05	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			03/15/24 12:05	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			03/15/24 12:05	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			03/15/24 12:05	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			03/15/24 12:05	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			03/15/24 12:05	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/Kg			03/15/24 12:05	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			03/15/24 12:05	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			03/15/24 12:05	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			03/15/24 12:05	1
Benzene	<0.15		0.25	0.15	ug/Kg			03/15/24 12:05	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			03/15/24 12:05	1
Bromoform	<0.48		1.0	0.48	ug/Kg			03/15/24 12:05	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			03/15/24 12:05	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			03/15/24 12:05	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			03/15/24 12:05	1
Chlorobromomethane	<0.43		1.0	0.43	ug/Kg			03/15/24 12:05	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/Kg			03/15/24 12:05	1
Chloroethane	<0.50		5.0	0.50	ug/Kg			03/15/24 12:05	1
Chloroform	<0.37		2.0	0.37	ug/Kg			03/15/24 12:05	1
Chloromethane	<0.32		5.0	0.32	ug/Kg			03/15/24 12:05	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			03/15/24 12:05	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			03/15/24 12:05	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			03/15/24 12:05	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/Kg			03/15/24 12:05	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			03/15/24 12:05	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			03/15/24 12:05	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/Kg			03/15/24 12:05	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			03/15/24 12:05	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			03/15/24 12:05	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			03/15/24 12:05	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			03/15/24 12:05	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			03/15/24 12:05	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			03/15/24 12:05	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			03/15/24 12:05	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			03/15/24 12:05	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			03/15/24 12:05	1
Styrene	<0.39		1.0	0.39	ug/Kg			03/15/24 12:05	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			03/15/24 12:05	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			03/15/24 12:05	1
Toluene	<0.15		0.25	0.15	ug/Kg			03/15/24 12:05	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			03/15/24 12:05	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			03/15/24 12:05	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			03/15/24 12:05	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			03/15/24 12:05	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			03/15/24 12:05	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			03/15/24 12:05	1

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 126		03/15/24 12:05	1
4-Bromofluorobenzene (Surr)	94		72 - 124		03/15/24 12:05	1
Dibromofluoromethane (Surr)	106		75 - 120		03/15/24 12:05	1
Toluene-d8 (Surr)	105		75 - 120		03/15/24 12:05	1

Lab Sample ID: LCS 500-758440/5
Matrix: Solid
Analysis Batch: 758440

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	51.8		ug/Kg		104	70 - 125
1,1,1-Trichloroethane	50.0	55.7		ug/Kg		111	70 - 125
1,1,2,2-Tetrachloroethane	50.0	37.0		ug/Kg		74	62 - 140
1,1,2-Trichloroethane	50.0	43.3		ug/Kg		87	71 - 130
1,1-Dichloroethane	50.0	43.5		ug/Kg		87	70 - 125
1,1-Dichloroethene	50.0	46.1		ug/Kg		92	67 - 122
1,1-Dichloropropene	50.0	47.6		ug/Kg		95	70 - 121
1,2,3-Trichlorobenzene	50.0	44.4		ug/Kg		89	51 - 145
1,2,3-Trichloropropane	50.0	44.2		ug/Kg		88	50 - 133
1,2,4-Trichlorobenzene	50.0	46.2		ug/Kg		92	57 - 137
1,2,4-Trimethylbenzene	50.0	48.5		ug/Kg		97	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	37.4		ug/Kg		75	56 - 123
1,2-Dichlorobenzene	50.0	50.1		ug/Kg		100	70 - 125
1,2-Dichloroethane	50.0	54.4		ug/Kg		109	68 - 127
1,2-Dichloropropane	50.0	43.3		ug/Kg		87	67 - 130
1,3,5-Trimethylbenzene	50.0	49.0		ug/Kg		98	70 - 123
1,3-Dichlorobenzene	50.0	50.9		ug/Kg		102	70 - 125
1,3-Dichloropropane	50.0	43.2		ug/Kg		86	62 - 136
1,4-Dichlorobenzene	50.0	50.6		ug/Kg		101	70 - 120
2,2-Dichloropropane	50.0	53.0		ug/Kg		106	58 - 139
2-Chlorotoluene	50.0	45.8		ug/Kg		92	70 - 125
4-Chlorotoluene	50.0	47.3		ug/Kg		95	68 - 124
4-Isopropyltoluene	50.0	49.5		ug/Kg		99	70 - 125
Benzene	50.0	42.1		ug/Kg		84	70 - 120
Bromobenzene	50.0	50.5		ug/Kg		101	70 - 122
Bromoform	50.0	46.0		ug/Kg		92	56 - 132
Bromomethane	50.0	55.6		ug/Kg		111	40 - 152
Carbon tetrachloride	50.0	59.0		ug/Kg		118	59 - 133
Chlorobenzene	50.0	50.2		ug/Kg		100	70 - 120
Chlorobromomethane	50.0	53.7		ug/Kg		107	65 - 122
Chlorodibromomethane	50.0	52.2		ug/Kg		104	68 - 125
Chloroethane	50.0	43.5		ug/Kg		87	48 - 136
Chloroform	50.0	42.9		ug/Kg		86	70 - 120
Chloromethane	50.0	38.8		ug/Kg		78	56 - 152
cis-1,2-Dichloroethene	50.0	46.5		ug/Kg		93	70 - 125
cis-1,3-Dichloropropene	50.0	45.4		ug/Kg		91	64 - 127
Dibromomethane	50.0	48.8		ug/Kg		98	70 - 120
Dichlorobromomethane	50.0	51.5		ug/Kg		103	69 - 120
Dichlorodifluoromethane	50.0	53.6		ug/Kg		107	40 - 159
Ethylbenzene	50.0	45.5		ug/Kg		91	70 - 123
Ethylene Dibromide	50.0	46.2		ug/Kg		92	70 - 125

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

Lab Sample ID: LCS 500-758440/5
Matrix: Solid
Analysis Batch: 758440

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobutadiene	50.0	33.3		ug/Kg		67	51 - 150
Isopropylbenzene	50.0	48.3		ug/Kg		97	70 - 126
Methyl tert-butyl ether	50.0	43.4		ug/Kg		87	55 - 123
Methylene Chloride	50.0	41.7		ug/Kg		83	69 - 125
Naphthalene	50.0	41.8		ug/Kg		84	53 - 144
n-Butylbenzene	50.0	43.7		ug/Kg		87	68 - 125
N-Propylbenzene	50.0	45.1		ug/Kg		90	69 - 127
sec-Butylbenzene	50.0	46.0		ug/Kg		92	70 - 123
Styrene	50.0	48.7		ug/Kg		97	70 - 120
tert-Butylbenzene	50.0	49.9		ug/Kg		100	70 - 121
Tetrachloroethene	50.0	51.8		ug/Kg		104	70 - 128
Toluene	50.0	44.5		ug/Kg		89	70 - 125
trans-1,2-Dichloroethene	50.0	45.7		ug/Kg		91	70 - 125
trans-1,3-Dichloropropene	50.0	46.5		ug/Kg		93	62 - 128
Trichloroethene	50.0	57.2		ug/Kg		114	70 - 125
Trichlorofluoromethane	50.0	56.6		ug/Kg		113	55 - 128
Vinyl chloride	50.0	39.7		ug/Kg		79	64 - 126
Xylenes, Total	100	90.6		ug/Kg		91	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*114*		*75 - 126*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*
Dibromofluoromethane (Surr)	*111*		*75 - 120*
Toluene-d8 (Surr)	*99*		*75 - 120*

Lab Sample ID: MB 500-758850/8
Matrix: Solid
Analysis Batch: 758850

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			03/19/24 11:26	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			03/19/24 11:26	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			03/19/24 11:26	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			03/19/24 11:26	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			03/19/24 11:26	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			03/19/24 11:26	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			03/19/24 11:26	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			03/19/24 11:26	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			03/19/24 11:26	1
1,2,4-Trichlorobenzene	0.421	J	1.0	0.34	ug/Kg			03/19/24 11:26	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			03/19/24 11:26	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			03/19/24 11:26	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			03/19/24 11:26	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			03/19/24 11:26	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			03/19/24 11:26	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			03/19/24 11:26	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			03/19/24 11:26	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			03/19/24 11:26	1

Client: Stantec Consulting Corporation
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Job ID: 500-247366-1

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

Lab Sample ID: MB 500-758850/8
Matrix: Solid
Analysis Batch: 758850

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			03/19/24 11:26	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/Kg			03/19/24 11:26	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			03/19/24 11:26	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			03/19/24 11:26	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			03/19/24 11:26	1
Benzene	<0.15		0.25	0.15	ug/Kg			03/19/24 11:26	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			03/19/24 11:26	1
Bromoform	<0.48		1.0	0.48	ug/Kg			03/19/24 11:26	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			03/19/24 11:26	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			03/19/24 11:26	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			03/19/24 11:26	1
Chlorobromomethane	<0.43		1.0	0.43	ug/Kg			03/19/24 11:26	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/Kg			03/19/24 11:26	1
Chloroethane	<0.50		5.0	0.50	ug/Kg			03/19/24 11:26	1
Chloroform	<0.37		2.0	0.37	ug/Kg			03/19/24 11:26	1
Chloromethane	<0.32		5.0	0.32	ug/Kg			03/19/24 11:26	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			03/19/24 11:26	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			03/19/24 11:26	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			03/19/24 11:26	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/Kg			03/19/24 11:26	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			03/19/24 11:26	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			03/19/24 11:26	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/Kg			03/19/24 11:26	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			03/19/24 11:26	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			03/19/24 11:26	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			03/19/24 11:26	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			03/19/24 11:26	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			03/19/24 11:26	1
Naphthalene	0.348	J	1.0	0.33	ug/Kg			03/19/24 11:26	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			03/19/24 11:26	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			03/19/24 11:26	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			03/19/24 11:26	1
Styrene	<0.39		1.0	0.39	ug/Kg			03/19/24 11:26	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			03/19/24 11:26	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			03/19/24 11:26	1
Toluene	<0.15		0.25	0.15	ug/Kg			03/19/24 11:26	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			03/19/24 11:26	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			03/19/24 11:26	1
Trichloroethene	0.180	J	0.50	0.16	ug/Kg			03/19/24 11:26	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			03/19/24 11:26	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			03/19/24 11:26	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			03/19/24 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*		*03/19/24 11:26*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*03/19/24 11:26*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 120*		*03/19/24 11:26*	*1*
Toluene-d8 (Surr)	*114*		*75 - 120*		*03/19/24 11:26*	*1*

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

Lab Sample ID: LCS 500-758850/5
Matrix: Solid
Analysis Batch: 758850

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	51.0		ug/Kg		102	70 - 125
1,1,1-Trichloroethane	50.0	54.2		ug/Kg		108	70 - 125
1,1,2,2-Tetrachloroethane	50.0	43.0		ug/Kg		86	62 - 140
1,1,2-Trichloroethane	50.0	45.3		ug/Kg		91	71 - 130
1,1-Dichloroethane	50.0	45.7		ug/Kg		91	70 - 125
1,1-Dichloroethene	50.0	49.6		ug/Kg		99	67 - 122
1,1-Dichloropropene	50.0	46.7		ug/Kg		93	70 - 121
1,2,3-Trichlorobenzene	50.0	46.8		ug/Kg		94	51 - 145
1,2,3-Trichloropropane	50.0	49.2		ug/Kg		98	50 - 133
1,2,4-Trichlorobenzene	50.0	45.6		ug/Kg		91	57 - 137
1,2,4-Trimethylbenzene	50.0	48.9		ug/Kg		98	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	38.1		ug/Kg		76	56 - 123
1,2-Dichlorobenzene	50.0	51.0		ug/Kg		102	70 - 125
1,2-Dichloroethane	50.0	52.5		ug/Kg		105	68 - 127
1,2-Dichloropropane	50.0	45.1		ug/Kg		90	67 - 130
1,3,5-Trimethylbenzene	50.0	50.0		ug/Kg		100	70 - 123
1,3-Dichlorobenzene	50.0	51.7		ug/Kg		103	70 - 125
1,3-Dichloropropane	50.0	44.0		ug/Kg		88	62 - 136
1,4-Dichlorobenzene	50.0	51.5		ug/Kg		103	70 - 120
2,2-Dichloropropane	50.0	48.1		ug/Kg		96	58 - 139
2-Chlorotoluene	50.0	48.8		ug/Kg		98	70 - 125
4-Chlorotoluene	50.0	49.1		ug/Kg		98	68 - 124
4-Isopropyltoluene	50.0	48.1		ug/Kg		96	70 - 125
Benzene	50.0	42.9		ug/Kg		86	70 - 120
Bromobenzene	50.0	54.0		ug/Kg		108	70 - 122
Bromoform	50.0	42.9		ug/Kg		86	56 - 132
Bromomethane	50.0	52.6		ug/Kg		105	40 - 152
Carbon tetrachloride	50.0	55.6		ug/Kg		111	59 - 133
Chlorobenzene	50.0	50.8		ug/Kg		102	70 - 120
Chlorobromomethane	50.0	54.9		ug/Kg		110	65 - 122
Chlorodibromomethane	50.0	50.7		ug/Kg		101	68 - 125
Chloroethane	50.0	42.2		ug/Kg		84	48 - 136
Chloroform	50.0	42.3		ug/Kg		85	70 - 120
Chloromethane	50.0	39.8		ug/Kg		80	56 - 152
cis-1,2-Dichloroethene	50.0	48.4		ug/Kg		97	70 - 125
cis-1,3-Dichloropropene	50.0	44.7		ug/Kg		89	64 - 127
Dibromomethane	50.0	47.6		ug/Kg		95	70 - 120
Dichlorobromomethane	50.0	49.9		ug/Kg		100	69 - 120
Dichlorodifluoromethane	50.0	46.8		ug/Kg		94	40 - 159
Ethylbenzene	50.0	46.3		ug/Kg		93	70 - 123
Ethylene Dibromide	50.0	47.9		ug/Kg		96	70 - 125
Hexachlorobutadiene	50.0	33.4		ug/Kg		67	51 - 150
Isopropylbenzene	50.0	51.7		ug/Kg		103	70 - 126
Methyl tert-butyl ether	50.0	45.3		ug/Kg		91	55 - 123
Methylene Chloride	50.0	44.0		ug/Kg		88	69 - 125
Naphthalene	50.0	45.7		ug/Kg		91	53 - 144
n-Butylbenzene	50.0	43.2		ug/Kg		86	68 - 125
N-Propylbenzene	50.0	47.8		ug/Kg		96	69 - 127

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

Lab Sample ID: LCS 500-758850/5
Matrix: Solid
Analysis Batch: 758850

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
sec-Butylbenzene	50.0	46.0		ug/Kg		92	70 - 123
Styrene	50.0	48.7		ug/Kg		97	70 - 120
tert-Butylbenzene	50.0	49.8		ug/Kg		100	70 - 121
Tetrachloroethene	50.0	50.6		ug/Kg		101	70 - 128
Toluene	50.0	45.8		ug/Kg		92	70 - 125
trans-1,2-Dichloroethene	50.0	49.0		ug/Kg		98	70 - 125
trans-1,3-Dichloropropene	50.0	45.2		ug/Kg		90	62 - 128
Trichloroethene	50.0	54.8		ug/Kg		110	70 - 125
Trichlorofluoromethane	50.0	51.2		ug/Kg		102	55 - 128
Vinyl chloride	50.0	39.8		ug/Kg		80	64 - 126
Xylenes, Total	100	90.5		ug/Kg		91	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*
Dibromofluoromethane (Surr)	*109*		*75 - 120*
Toluene-d8 (Surr)	*101*		*75 - 120*

Lab Sample ID: MB 500-759063/32
Matrix: Solid
Analysis Batch: 759063

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			03/20/24 11:30	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			03/20/24 11:30	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			03/20/24 11:30	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			03/20/24 11:30	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			03/20/24 11:30	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			03/20/24 11:30	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			03/20/24 11:30	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			03/20/24 11:30	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			03/20/24 11:30	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			03/20/24 11:30	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			03/20/24 11:30	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			03/20/24 11:30	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			03/20/24 11:30	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			03/20/24 11:30	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			03/20/24 11:30	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			03/20/24 11:30	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			03/20/24 11:30	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			03/20/24 11:30	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			03/20/24 11:30	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/Kg			03/20/24 11:30	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			03/20/24 11:30	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			03/20/24 11:30	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			03/20/24 11:30	1
Benzene	<0.15		0.25	0.15	ug/Kg			03/20/24 11:30	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			03/20/24 11:30	1

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

Lab Sample ID: MB 500-759063/32
Matrix: Solid
Analysis Batch: 759063

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<0.48		1.0	0.48	ug/Kg			03/20/24 11:30	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			03/20/24 11:30	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			03/20/24 11:30	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			03/20/24 11:30	1
Chlorobromomethane	<0.43		1.0	0.43	ug/Kg			03/20/24 11:30	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/Kg			03/20/24 11:30	1
Chloroethane	<0.50		5.0	0.50	ug/Kg			03/20/24 11:30	1
Chloroform	<0.37		2.0	0.37	ug/Kg			03/20/24 11:30	1
Chloromethane	<0.32		5.0	0.32	ug/Kg			03/20/24 11:30	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			03/20/24 11:30	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			03/20/24 11:30	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			03/20/24 11:30	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/Kg			03/20/24 11:30	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			03/20/24 11:30	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			03/20/24 11:30	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/Kg			03/20/24 11:30	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			03/20/24 11:30	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			03/20/24 11:30	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			03/20/24 11:30	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			03/20/24 11:30	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			03/20/24 11:30	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			03/20/24 11:30	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			03/20/24 11:30	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			03/20/24 11:30	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			03/20/24 11:30	1
Styrene	<0.39		1.0	0.39	ug/Kg			03/20/24 11:30	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			03/20/24 11:30	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			03/20/24 11:30	1
Toluene	<0.15		0.25	0.15	ug/Kg			03/20/24 11:30	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			03/20/24 11:30	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			03/20/24 11:30	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			03/20/24 11:30	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			03/20/24 11:30	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			03/20/24 11:30	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			03/20/24 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*75 - 126*		*03/20/24 11:30*	*1*
4-Bromofluorobenzene (Surr)	*84*		*72 - 124*		*03/20/24 11:30*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 120*		*03/20/24 11:30*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*03/20/24 11:30*	*1*

Lab Sample ID: LCS 500-759063/5
Matrix: Solid
Analysis Batch: 759063

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	57.0		ug/Kg		114	70 - 125

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

Lab Sample ID: LCS 500-759063/5
Matrix: Solid
Analysis Batch: 759063

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	60.4		ug/Kg		121	70 - 125
1,1,2,2-Tetrachloroethane	50.0	37.7		ug/Kg		75	62 - 140
1,1,2-Trichloroethane	50.0	47.4		ug/Kg		95	71 - 130
1,1-Dichloroethane	50.0	49.1		ug/Kg		98	70 - 125
1,1-Dichloroethene	50.0	51.1		ug/Kg		102	67 - 122
1,1-Dichloropropene	50.0	50.0		ug/Kg		100	70 - 121
1,2,3-Trichlorobenzene	50.0	46.9		ug/Kg		94	51 - 145
1,2,3-Trichloropropane	50.0	46.5		ug/Kg		93	50 - 133
1,2,4-Trichlorobenzene	50.0	47.9		ug/Kg		96	57 - 137
1,2,4-Trimethylbenzene	50.0	47.9		ug/Kg		96	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	38.3		ug/Kg		77	56 - 123
1,2-Dichlorobenzene	50.0	52.4		ug/Kg		105	70 - 125
1,2-Dichloroethane	50.0	62.1		ug/Kg		124	68 - 127
1,2-Dichloropropane	50.0	47.6		ug/Kg		95	67 - 130
1,3,5-Trimethylbenzene	50.0	48.1		ug/Kg		96	70 - 123
1,3-Dichlorobenzene	50.0	52.3		ug/Kg		105	70 - 125
1,3-Dichloropropane	50.0	45.3		ug/Kg		91	62 - 136
1,4-Dichlorobenzene	50.0	52.0		ug/Kg		104	70 - 120
2,2-Dichloropropane	50.0	52.2		ug/Kg		104	58 - 139
2-Chlorotoluene	50.0	44.0		ug/Kg		88	70 - 125
4-Chlorotoluene	50.0	45.6		ug/Kg		91	68 - 124
4-Isopropyltoluene	50.0	49.3		ug/Kg		99	70 - 125
Benzene	50.0	44.7		ug/Kg		89	70 - 120
Bromobenzene	50.0	52.0		ug/Kg		104	70 - 122
Bromoform	50.0	52.4		ug/Kg		105	56 - 132
Bromomethane	50.0	58.0		ug/Kg		116	40 - 152
Carbon tetrachloride	50.0	64.7		ug/Kg		129	59 - 133
Chlorobenzene	50.0	54.0		ug/Kg		108	70 - 120
Chlorobromomethane	50.0	63.7	*+	ug/Kg		127	65 - 122
Chlorodibromomethane	50.0	57.9		ug/Kg		116	68 - 125
Chloroethane	50.0	44.3		ug/Kg		89	48 - 136
Chloroform	50.0	46.7		ug/Kg		93	70 - 120
Chloromethane	50.0	40.1		ug/Kg		80	56 - 152
cis-1,2-Dichloroethene	50.0	51.0		ug/Kg		102	70 - 125
cis-1,3-Dichloropropene	50.0	46.2		ug/Kg		92	64 - 127
Dibromomethane	50.0	55.2		ug/Kg		110	70 - 120
Dichlorobromomethane	50.0	54.7		ug/Kg		109	69 - 120
Dichlorodifluoromethane	50.0	45.1		ug/Kg		90	40 - 159
Ethylbenzene	50.0	47.5		ug/Kg		95	70 - 123
Ethylene Dibromide	50.0	51.5		ug/Kg		103	70 - 125
Hexachlorobutadiene	50.0	34.0		ug/Kg		68	51 - 150
Isopropylbenzene	50.0	47.7		ug/Kg		95	70 - 126
Methyl tert-butyl ether	50.0	50.7		ug/Kg		101	55 - 123
Methylene Chloride	50.0	45.7		ug/Kg		91	69 - 125
Naphthalene	50.0	47.7		ug/Kg		95	53 - 144
n-Butylbenzene	50.0	42.6		ug/Kg		85	68 - 125
N-Propylbenzene	50.0	43.6		ug/Kg		87	69 - 127
sec-Butylbenzene	50.0	45.5		ug/Kg		91	70 - 123
Styrene	50.0	51.9		ug/Kg		104	70 - 120

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

Lab Sample ID: LCS 500-759063/5
Matrix: Solid
Analysis Batch: 759063

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
tert-Butylbenzene	50.0	50.1		ug/Kg		100	70 - 121
Tetrachloroethene	50.0	57.1		ug/Kg		114	70 - 128
Toluene	50.0	46.0		ug/Kg		92	70 - 125
trans-1,2-Dichloroethene	50.0	51.2		ug/Kg		102	70 - 125
trans-1,3-Dichloropropene	50.0	48.2		ug/Kg		96	62 - 128
Trichloroethene	50.0	63.6	*+	ug/Kg		127	70 - 125
Trichlorofluoromethane	50.0	56.7		ug/Kg		113	55 - 128
Vinyl chloride	50.0	41.0		ug/Kg		82	64 - 126
Xylenes, Total	100	94.5		ug/Kg		94	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*118*		*75 - 126*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*
Dibromofluoromethane (Surr)	*116*		*75 - 120*
Toluene-d8 (Surr)	*96*		*75 - 120*

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

Lab Sample ID: MB 500-759498/1-A
Matrix: Solid
Analysis Batch: 759771

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 759498

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<5.9		67	5.9	ug/Kg		03/22/24 07:54	03/25/24 10:26	1
2-Methylnaphthalene	<6.7		67	6.7	ug/Kg		03/22/24 07:54	03/25/24 10:26	1
Acenaphthene	<6.8		33	6.8	ug/Kg		03/22/24 07:54	03/25/24 10:26	1
Acenaphthylene	<5.6		33	5.6	ug/Kg		03/22/24 07:54	03/25/24 10:26	1
Anthracene	<6.8		33	6.8	ug/Kg		03/22/24 07:54	03/25/24 10:26	1
Benzo[a]anthracene	<7.0		33	7.0	ug/Kg		03/22/24 07:54	03/25/24 10:26	1
Benzo[a]pyrene	<32		33	32	ug/Kg		03/22/24 07:54	03/25/24 10:26	1
Benzo[b]fluoranthene	<32		33	32	ug/Kg		03/22/24 07:54	03/25/24 10:26	1
Benzo[g,h,i]perylene	<7.2		33	7.2	ug/Kg		03/22/24 07:54	03/25/24 10:26	1
Benzo[k]fluoranthene	<13		33	13	ug/Kg		03/22/24 07:54	03/25/24 10:26	1
Chrysene	<8.8		33	8.8	ug/Kg		03/22/24 07:54	03/25/24 10:26	1
Dibenz(a,h)anthracene	<33		33	33	ug/Kg		03/22/24 07:54	03/25/24 10:26	1
Fluoranthene	<7.7		33	7.7	ug/Kg		03/22/24 07:54	03/25/24 10:26	1
Fluorene	<9.8		33	9.8	ug/Kg		03/22/24 07:54	03/25/24 10:26	1
Indeno[1,2,3-cd]pyrene	<32		33	32	ug/Kg		03/22/24 07:54	03/25/24 10:26	1
Naphthalene	<6.0		33	6.0	ug/Kg		03/22/24 07:54	03/25/24 10:26	1
Phenanthrene	<7.2		33	7.2	ug/Kg		03/22/24 07:54	03/25/24 10:26	1
Pyrene	<9.1		33	9.1	ug/Kg		03/22/24 07:54	03/25/24 10:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*102*		*37 - 147*	*03/22/24 07:54*	*03/25/24 10:26*	*1*
2-Fluorobiphenyl (Surr)	*88*		*43 - 145*	*03/22/24 07:54*	*03/25/24 10:26*	*1*
Terphenyl-d14 (Surr)	*99*		*42 - 157*	*03/22/24 07:54*	*03/25/24 10:26*	*1*

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

Lab Sample ID: LCS 500-759498/2-A
Matrix: Solid
Analysis Batch: 759771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 759498

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	3330	2940		ug/Kg		88	58 - 101
2-Methylnaphthalene	3330	2980		ug/Kg		89	58 - 103
Acenaphthene	3330	2780		ug/Kg		83	63 - 109
Acenaphthylene	3330	2790		ug/Kg		84	61 - 115
Anthracene	3330	3170		ug/Kg		95	68 - 120
Benzo[a]anthracene	3330	3130		ug/Kg		94	70 - 121
Benzo[a]pyrene	3330	2970		ug/Kg		89	73 - 132
Benzo[b]fluoranthene	3330	3320		ug/Kg		100	68 - 123
Benzo[g,h,i]perylene	3330	2830		ug/Kg		85	65 - 126
Benzo[k]fluoranthene	3330	3460		ug/Kg		104	64 - 128
Chrysene	3330	3140		ug/Kg		94	70 - 123
Dibenz(a,h)anthracene	3330	3200		ug/Kg		96	66 - 125
Fluoranthene	3330	3180		ug/Kg		95	66 - 123
Fluorene	3330	2800		ug/Kg		84	62 - 113
Indeno[1,2,3-cd]pyrene	3330	4190		ug/Kg		126	66 - 131
Naphthalene	3330	2890		ug/Kg		87	54 - 98
Phenanthrene	3330	2910		ug/Kg		87	65 - 115
Pyrene	3330	3310		ug/Kg		99	71 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*100*		*37 - 147*
2-Fluorobiphenyl (Surr)	*87*		*43 - 145*
Terphenyl-d14 (Surr)	*88*		*42 - 157*

Lab Sample ID: 500-247366-2 MS
Matrix: Solid
Analysis Batch: 759771

Client Sample ID: TP-2 STA 106+00 0-2'
Prep Type: Total/NA
Prep Batch: 759498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<6.1	F1	3320	1810	F1	ug/Kg	☼	54	68 - 111
2-Methylnaphthalene	<6.9	F1	3320	1850	F1	ug/Kg	☼	56	69 - 112
Acenaphthene	<7.0	F1	3320	1780	F1	ug/Kg	☼	54	65 - 124
Acenaphthylene	<5.8	F1	3320	1800	F1	ug/Kg	☼	54	68 - 120
Anthracene	9.1	J F1	3320	2260	F1	ug/Kg	☼	68	70 - 114
Benzo[a]anthracene	26	J	3320	2340		ug/Kg	☼	70	67 - 122
Benzo[a]pyrene	50		3320	2240		ug/Kg	☼	66	65 - 133
Benzo[b]fluoranthene	<33		3320	2480		ug/Kg	☼	75	69 - 129
Benzo[g,h,i]perylene	41	F1	3320	2150	F1	ug/Kg	☼	64	72 - 131
Benzo[k]fluoranthene	<13		3320	2580		ug/Kg	☼	78	68 - 127
Chrysene	21	J	3320	2370		ug/Kg	☼	71	63 - 120
Dibenz(a,h)anthracene	<34		3320	2530		ug/Kg	☼	76	64 - 131
Fluoranthene	59		3320	2370		ug/Kg	☼	70	62 - 120
Fluorene	<10	F1	3320	1840	F1	ug/Kg	☼	55	62 - 120
Indeno[1,2,3-cd]pyrene	<33		3320	3340		ug/Kg	☼	101	68 - 130
Naphthalene	<6.2	F1	3320	1730	F1	ug/Kg	☼	52	63 - 110
Phenanthrene	34		3320	2090		ug/Kg	☼	62	62 - 120
Pyrene	49		3320	2450		ug/Kg	☼	72	61 - 128

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

Lab Sample ID: 500-247366-2 MS
Matrix: Solid
Analysis Batch: 759771

Client Sample ID: TP-2 STA 106+00 0-2'
Prep Type: Total/NA
Prep Batch: 759498

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5 (Surr)	*64*		*37 - 147*
2-Fluorobiphenyl (Surr)	*57*		*43 - 145*
Terphenyl-d14 (Surr)	*68*		*42 - 157*

Lab Sample ID: 500-247366-2 MSD
Matrix: Solid
Analysis Batch: 759771

Client Sample ID: TP-2 STA 106+00 0-2'
Prep Type: Total/NA
Prep Batch: 759498

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<6.1	F1	3480	1750	F1	ug/Kg	☼	50	68 - 111	3	30
2-Methylnaphthalene	<6.9	F1	3480	1770	F1	ug/Kg	☼	51	69 - 112	5	30
Acenaphthene	<7.0	F1	3480	1850	F1	ug/Kg	☼	53	65 - 124	4	30
Acenaphthylene	<5.8	F1	3480	1850	F1	ug/Kg	☼	53	68 - 120	2	30
Anthracene	9.1	J F1	3480	2720		ug/Kg	☼	78	70 - 114	19	30
Benzo[a]anthracene	26	J	3480	2880		ug/Kg	☼	82	67 - 122	21	30
Benzo[a]pyrene	50		3480	2760		ug/Kg	☼	78	65 - 133	21	30
Benzo[b]fluoranthene	<33		3480	3180		ug/Kg	☼	91	69 - 129	25	30
Benzo[g,h,i]perylene	41	F1	3480	2730		ug/Kg	☼	77	72 - 131	23	30
Benzo[k]fluoranthene	<13		3480	3070		ug/Kg	☼	88	68 - 127	17	30
Chrysene	21	J	3480	2920		ug/Kg	☼	83	63 - 120	21	30
Dibenz(a,h)anthracene	<34		3480	3110		ug/Kg	☼	89	64 - 131	20	30
Fluoranthene	59		3480	2970		ug/Kg	☼	84	62 - 120	23	30
Fluorene	<10	F1	3480	2080	F1	ug/Kg	☼	60	62 - 120	12	30
Indeno[1,2,3-cd]pyrene	<33		3480	4070		ug/Kg	☼	117	68 - 130	20	30
Naphthalene	<6.2	F1	3480	1620	F1	ug/Kg	☼	47	63 - 110	6	30
Phenanthrene	34		3480	2540		ug/Kg	☼	72	62 - 120	19	30
Pyrene	49		3480	3030		ug/Kg	☼	86	61 - 128	21	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	*55*		*37 - 147*
2-Fluorobiphenyl (Surr)	*51*		*43 - 145*
Terphenyl-d14 (Surr)	*79*		*42 - 157*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-759136/1-A
Matrix: Solid
Analysis Batch: 760343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 759136

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		03/20/24 10:21	03/27/24 20:56	1
Barium	0.567	J	1.0	0.11	mg/Kg		03/20/24 10:21	03/27/24 20:56	1
Cadmium	0.0903	J	0.20	0.036	mg/Kg		03/20/24 10:21	03/27/24 20:56	1
Chromium	<0.50		1.0	0.50	mg/Kg		03/20/24 10:21	03/27/24 20:56	1
Lead	<0.23		0.50	0.23	mg/Kg		03/20/24 10:21	03/27/24 20:56	1
Selenium	<0.59		1.0	0.59	mg/Kg		03/20/24 10:21	03/27/24 20:56	1
Silver	<0.13		0.50	0.13	mg/Kg		03/20/24 10:21	03/27/24 20:56	1

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

Lab Sample ID: LCS 500-759136/2-A
Matrix: Solid
Analysis Batch: 760343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 759136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	8.91		mg/Kg		89	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Cadmium	5.00	4.52		mg/Kg		90	80 - 120
Chromium	20.0	19.5		mg/Kg		98	80 - 120
Lead	10.0	9.56		mg/Kg		96	80 - 120
Selenium	10.0	8.49		mg/Kg		85	80 - 120
Silver	5.00	4.18		mg/Kg		84	80 - 120

Lab Sample ID: 500-247366-1 MS
Matrix: Solid
Analysis Batch: 760343

Client Sample ID: TP-1 STA 102+00 0-2'
Prep Type: Total/NA
Prep Batch: 759136

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	3.0		11.5	12.6		mg/Kg	☼	84	75 - 125
Barium	74	B	230	259		mg/Kg	☼	80	75 - 125
Cadmium	0.23	B	5.75	4.80		mg/Kg	☼	79	75 - 125
Chromium	23		23.0	44.9		mg/Kg	☼	93	75 - 125
Lead	41	F1 F2	11.5	85.4	F1	mg/Kg	☼	381	75 - 125
Selenium	<0.62		11.5	9.08		mg/Kg	☼	79	75 - 125
Silver	<0.14	F1	5.75	4.24	F1	mg/Kg	☼	74	75 - 125

Lab Sample ID: 500-247366-1 MSD
Matrix: Solid
Analysis Batch: 760343

Client Sample ID: TP-1 STA 102+00 0-2'
Prep Type: Total/NA
Prep Batch: 759136

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	3.0		10.4	11.4		mg/Kg	☼	80	75 - 125	10	20
Barium	74	B	208	251		mg/Kg	☼	85	75 - 125	3	20
Cadmium	0.23	B	5.20	4.35		mg/Kg	☼	79	75 - 125	10	20
Chromium	23		20.8	42.2		mg/Kg	☼	91	75 - 125	6	20
Lead	41	F1 F2	10.4	62.8	F1 F2	mg/Kg	☼	205	75 - 125	30	20
Selenium	<0.62		10.4	7.83		mg/Kg	☼	75	75 - 125	15	20
Silver	<0.14	F1	5.20	3.73	F1	mg/Kg	☼	72	75 - 125	13	20

Lab Sample ID: 500-247366-1 DU
Matrix: Solid
Analysis Batch: 760343

Client Sample ID: TP-1 STA 102+00 0-2'
Prep Type: Total/NA
Prep Batch: 759136

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	3.0		2.73		mg/Kg	☼	10	20
Barium	74	B	72.3		mg/Kg	☼	3	20
Cadmium	0.23	B	0.262		mg/Kg	☼	11	20
Chromium	23		22.2		mg/Kg	☼	5	20
Lead	41	F1 F2	86.0	F3	mg/Kg	☼	70	20
Selenium	<0.62		<0.65		mg/Kg	☼	NC	20
Silver	<0.14	F1	<0.14		mg/Kg	☼	NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-760043/12-A
Matrix: Solid
Analysis Batch: 760171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 760043

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0088		0.017	0.0088	mg/Kg		03/26/24 16:40	03/27/24 06:55	1

Lab Sample ID: LCS 500-760043/13-A
Matrix: Solid
Analysis Batch: 760171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 760043

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.167	0.165		mg/Kg		99	80 - 120		

Lab Sample ID: 500-247366-11 MS
Matrix: Solid
Analysis Batch: 760171

Client Sample ID: TP-11 STA 141+00 0-1'
Prep Type: Total/NA
Prep Batch: 760043

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.022		0.0856	0.110		mg/Kg	☼	103	75 - 125		

Lab Sample ID: 500-247366-11 MSD
Matrix: Solid
Analysis Batch: 760171

Client Sample ID: TP-11 STA 141+00 0-1'
Prep Type: Total/NA
Prep Batch: 760043

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.022		0.0852	0.107		mg/Kg	☼	99	75 - 125	3	20

Lab Sample ID: 500-247366-11 DU
Matrix: Solid
Analysis Batch: 760171

Client Sample ID: TP-11 STA 141+00 0-1'
Prep Type: Total/NA
Prep Batch: 760043

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	0.022			0.0282	F5	mg/Kg	☼			23	20

Lab Chronicle

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-1 STA 102+00 0-2'
Lab Sample ID: 500-247366-1
Date Collected: 03/12/24 09:00
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758461	ER	EET CHI	03/15/24 08:22

Client Sample ID: TP-1 STA 102+00 0-2'
Lab Sample ID: 500-247366-1
Date Collected: 03/12/24 09:00
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758195	WRE	EET CHI	03/12/24 09:00
Total/NA	Analysis	8260D		50	758440	W1T	EET CHI	03/15/24 17:22
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		2	759771	JSB	EET CHI	03/25/24 18:43
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 21:04
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 06:58

Client Sample ID: TP-2 STA 106+00 0-2'
Lab Sample ID: 500-247366-2
Date Collected: 03/12/24 09:13
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: TP-2 STA 106+00 0-2'
Lab Sample ID: 500-247366-2
Date Collected: 03/12/24 09:13
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758195	WRE	EET CHI	03/12/24 09:13
Total/NA	Analysis	8260D		50	758440	W1T	EET CHI	03/15/24 17:47
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		1	759771	JSB	EET CHI	03/25/24 14:11
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 21:25
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:01

Client Sample ID: TP-3 STA 110+00 0-2.5'
Lab Sample ID: 500-247366-3
Date Collected: 03/12/24 09:23
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: TP-3 STA 110+00 0-2.5'
Lab Sample ID: 500-247366-3

Date Collected: 03/12/24 09:23
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758195	WRE	EET CHI	03/12/24 09:23
Total/NA	Analysis	8260D		50	758440	W1T	EET CHI	03/15/24 18:11
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		2	759771	JSB	EET CHI	03/25/24 20:48
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 21:29
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:03

Client Sample ID: TP-4 STA 114+00 0-1.5'
Lab Sample ID: 500-247366-4

Date Collected: 03/12/24 09:35
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: TP-4 STA 114+00 0-1.5'
Lab Sample ID: 500-247366-4

Date Collected: 03/12/24 09:35
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758195	WRE	EET CHI	03/12/24 09:35
Total/NA	Analysis	8260D		50	758440	W1T	EET CHI	03/15/24 18:35
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		1	759771	JSB	EET CHI	03/25/24 15:25
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 21:33
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:04

Client Sample ID: TP-5 STA 118+00 0-2'
Lab Sample ID: 500-247366-5

Date Collected: 03/12/24 09:50
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: TP-5 STA 118+00 0-2'
Lab Sample ID: 500-247366-5

Date Collected: 03/12/24 09:50
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758195	WRE	EET CHI	03/12/24 09:50
Total/NA	Analysis	8260D		50	758440	W1T	EET CHI	03/15/24 19:00
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		2	759771	JSB	EET CHI	03/25/24 19:08

Lab Chronicle

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-5 STA 118+00 0-2'
Lab Sample ID: 500-247366-5
Date Collected: 03/12/24 09:50
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 21:47
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:06

Client Sample ID: TP-6 STA 122+00 0-1.5'
Lab Sample ID: 500-247366-6
Date Collected: 03/12/24 09:55
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: TP-6 STA 122+00 0-1.5'
Lab Sample ID: 500-247366-6
Date Collected: 03/12/24 09:55
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758195	WRE	EET CHI	03/12/24 09:55
Total/NA	Analysis	8260D		50	758440	W1T	EET CHI	03/15/24 19:24
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		2	759771	JSB	EET CHI	03/25/24 19:33
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 21:51
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:08

Client Sample ID: TP-7 STA 126+00 0-1.5'
Lab Sample ID: 500-247366-7
Date Collected: 03/12/24 10:05
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: TP-7 STA 126+00 0-1.5'
Lab Sample ID: 500-247366-7
Date Collected: 03/12/24 10:05
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758195	WRE	EET CHI	03/12/24 10:05
Total/NA	Analysis	8260D		50	758440	W1T	EET CHI	03/15/24 19:49
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		1	759771	JSB	EET CHI	03/25/24 16:15
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 21:55
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:09

Lab Chronicle

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-8 STA 130+00 0-1.5'
Lab Sample ID: 500-247366-8
Date Collected: 03/12/24 10:15
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: TP-8 STA 130+00 0-1.5'
Lab Sample ID: 500-247366-8
Date Collected: 03/12/24 10:15
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758195	WRE	EET CHI	03/12/24 11:05
Total/NA	Analysis	8260D		50	758440	W1T	EET CHI	03/15/24 20:13
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		2	759771	JSB	EET CHI	03/25/24 19:58
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 22:00
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:15

Client Sample ID: TP-9 STA 134+00 0-1.5'
Lab Sample ID: 500-247366-9
Date Collected: 03/12/24 10:35
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: TP-9 STA 134+00 0-1.5'
Lab Sample ID: 500-247366-9
Date Collected: 03/12/24 10:35
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758195	WRE	EET CHI	03/12/24 10:35
Total/NA	Analysis	8260D		50	758850	W1T	EET CHI	03/19/24 15:34
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		1	759771	JSB	EET CHI	03/25/24 16:39
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 22:04
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:17

Client Sample ID: TP-10 STA 138+00 0-1.5'
Lab Sample ID: 500-247366-10
Date Collected: 03/12/24 10:45
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: TP-10 STA 138+00 0-1.5'
Lab Sample ID: 500-247366-10

Date Collected: 03/12/24 10:45
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758197	WRE	EET CHI	03/12/24 10:45
Total/NA	Analysis	8260D		50	758850	W1T	EET CHI	03/19/24 15:58
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		2	759771	JSB	EET CHI	03/25/24 20:23
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 22:08
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:18

Client Sample ID: TP-11 STA 141+00 0-1'
Lab Sample ID: 500-247366-11

Date Collected: 03/12/24 10:50
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: TP-11 STA 141+00 0-1'
Lab Sample ID: 500-247366-11

Date Collected: 03/12/24 10:50
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758197	WRE	EET CHI	03/12/24 10:50
Total/NA	Analysis	8260D		50	759063	W1T	EET CHI	03/20/24 11:54
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		1	759771	JSB	EET CHI	03/25/24 15:50
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 22:12
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:20

Client Sample ID: TP-12 STA 146+00 0-1'
Lab Sample ID: 500-247366-12

Date Collected: 03/12/24 11:00
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: TP-12 STA 146+00 0-1'
Lab Sample ID: 500-247366-12

Date Collected: 03/12/24 11:00
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758197	WRE	EET CHI	03/12/24 11:00
Total/NA	Analysis	8260D		50	758850	W1T	EET CHI	03/19/24 16:47
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		1	759771	JSB	EET CHI	03/25/24 17:04

Lab Chronicle

Client: Stantec Consulting Corporation
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Job ID: 500-247366-1

Client Sample ID: TP-12 STA 146+00 0-1'
Lab Sample ID: 500-247366-12
Date Collected: 03/12/24 11:00
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 22:16
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:28

Client Sample ID: TP-13 STA 150+00 0-1'
Lab Sample ID: 500-247366-13
Date Collected: 03/12/24 11:15
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: TP-13 STA 150+00 0-1'
Lab Sample ID: 500-247366-13
Date Collected: 03/12/24 11:15
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758197	WRE	EET CHI	03/12/24 11:15
Total/NA	Analysis	8260D		50	758850	W1T	EET CHI	03/19/24 17:11
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		1	759771	JSB	EET CHI	03/25/24 17:29
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 22:21
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:30

Client Sample ID: TP-14 STA 154+00 0-1'
Lab Sample ID: 500-247366-14
Date Collected: 03/12/24 11:25
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: TP-14 STA 154+00 0-1'
Lab Sample ID: 500-247366-14
Date Collected: 03/12/24 11:25
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758197	WRE	EET CHI	03/12/24 11:25
Total/NA	Analysis	8260D		50	758850	W1T	EET CHI	03/19/24 17:35
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		2	759952	H7CM	EET CHI	03/26/24 21:16
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 22:25
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:32

Lab Chronicle

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-15 STA 158+00 0-1'
Lab Sample ID: 500-247366-15
Date Collected: 03/12/24 11:35
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: TP-15 STA 158+00 0-1'
Lab Sample ID: 500-247366-15
Date Collected: 03/12/24 11:35
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758197	WRE	EET CHI	03/12/24 11:35
Total/NA	Analysis	8260D		50	758850	W1T	EET CHI	03/19/24 17:59
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		2	759771	JSB	EET CHI	03/25/24 21:38
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 22:38
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:49

Client Sample ID: TP-16 STA 163+00 0-1'
Lab Sample ID: 500-247366-16
Date Collected: 03/12/24 11:50
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: TP-16 STA 163+00 0-1'
Lab Sample ID: 500-247366-16
Date Collected: 03/12/24 11:50
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758197	WRE	EET CHI	03/12/24 11:50
Total/NA	Analysis	8260D		50	758850	W1T	EET CHI	03/19/24 18:24
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		2	759771	JSB	EET CHI	03/25/24 21:13
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 22:43
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:51

Client Sample ID: TP-17 STA 166+25 0-1.5'
Lab Sample ID: 500-247366-17
Date Collected: 03/12/24 12:05
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Lab Chronicle

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-17 STA 166+25 0-1.5'
Lab Sample ID: 500-247366-17
Date Collected: 03/12/24 12:05
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758197	WRE	EET CHI	03/12/24 12:05
Total/NA	Analysis	8260D		50	758850	W1T	EET CHI	03/19/24 18:48
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		2	759952	H7CM	EET CHI	03/26/24 20:52
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 22:47
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:52

Client Sample ID: TP-18 STA 170+00 0-1'
Lab Sample ID: 500-247366-18
Date Collected: 03/12/24 12:15
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: TP-18 STA 170+00 0-1'
Lab Sample ID: 500-247366-18
Date Collected: 03/12/24 12:15
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758197	WRE	EET CHI	03/12/24 12:15
Total/NA	Analysis	8260D		50	758850	W1T	EET CHI	03/19/24 19:13
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		2	759771	JSB	EET CHI	03/25/24 17:54
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 22:51
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:54

Client Sample ID: TP-19 STA 174+00 0-1'
Lab Sample ID: 500-247366-19
Date Collected: 03/12/24 12:25
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: TP-19 STA 174+00 0-1'
Lab Sample ID: 500-247366-19
Date Collected: 03/12/24 12:25
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758197	WRE	EET CHI	03/12/24 12:25
Total/NA	Analysis	8260D		50	759063	W1T	EET CHI	03/20/24 12:18
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		2	759771	JSB	EET CHI	03/25/24 18:19

Lab Chronicle

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TP-19 STA 174+00 0-1'
Lab Sample ID: 500-247366-19
Date Collected: 03/12/24 12:25
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 22:55
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:56

Client Sample ID: DUP-1
Lab Sample ID: 500-247366-20
Date Collected: 03/12/24 12:26
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: DUP-1
Lab Sample ID: 500-247366-20
Date Collected: 03/12/24 12:26
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758197	WRE	EET CHI	03/12/24 12:26
Total/NA	Analysis	8260D		50	759063	W1T	EET CHI	03/20/24 12:43

Client Sample ID: TP-20 STA 177+50 0-1'
Lab Sample ID: 500-247366-21
Date Collected: 03/12/24 12:35
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758481	ER	EET CHI	03/15/24 09:10

Client Sample ID: TP-20 STA 177+50 0-1'
Lab Sample ID: 500-247366-21
Date Collected: 03/12/24 12:35
Matrix: Solid
Date Received: 03/13/24 10:05
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758197	WRE	EET CHI	03/12/24 12:35
Total/NA	Analysis	8260D		50	759063	W1T	EET CHI	03/20/24 13:14
Total/NA	Prep	3546			759498	ER	EET CHI	03/22/24 07:54
Total/NA	Analysis	8270E		2	759952	H7CM	EET CHI	03/26/24 21:41
Total/NA	Prep	3050B			759136	BDE	EET CHI	03/20/24 10:21 - 03/20/24 16:21 [1]
Total/NA	Analysis	6010D		1	760343	SJ	EET CHI	03/27/24 23:00
Total/NA	Prep	7471B			760043	MJG	EET CHI	03/26/24 16:40
Total/NA	Analysis	7471B		1	760171	MJG	EET CHI	03/27/24 07:58

Lab Chronicle

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-247366-22

Date Collected: 03/12/24 00:00
Matrix: Solid
Date Received: 03/13/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			758197	WRE	EET CHI	03/12/24 00:00
Total/NA	Analysis	8260D		50	759063	W1T	EET CHI	03/20/24 13:38

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Stantec Consulting Corporation
Job ID: 500-247366-1
Project/Site: County Rd R/Rapids Rd ROW - 193710442.203

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-24

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone 708-534 5200 Fax 708-534 5211

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: W. Cull	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-121781 49135 1
Client Contact: Jiyan Hatami	Phone: (262) 217-4740	E-Mail: Sandra Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 1 of 2
Company: Stantec Consulting Corporation	PWSID:			Job #: 500-247366

Address: 12080 Corporate Parkway, Suite 200	Due Date Requested:	
City: Mequon	TAT Requested (days): 10 DAY	
State, Zip: WI, 53092	Compliance Project: Δ Yes Δ No	
Phone:	PO #: 193799000 200	
Email: Jiyan Hatami@stantec.com	WO #:	
Project Name: County Rd R/Rapids Rd ROW-193799000 200	Project #: 50006565	
Site:	SSOW#:	

500-247366 COC

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, Y Trizma, 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)	8260B - VOC	6010C, 7471B, 8270D	Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	N		
1	TP-1 STA 102+00 0-2'	3/12/24	0900	G	Solid	N	N	X	X	5	
2	TP-2 STA 106+00 0-2'		0913		Solid			X	X	5	
3	TP-3 STA 110+00 0-2.5'		0923		Solid			X	X	5	
4	TP-4 STA 114+00 0-1.5'		0935		Solid			X	X	5	
5	TP-5 STA 118+00 0-2'		0950		Solid			X	X	5	
6	TP-6 STA 122+00 0-1.5'		0955		Solid			X	X	5	
7	TP-7 STA 126+00 0-1.5'		1005		Solid			X	X	5	
8	TP-8 STA 130+00 0-1.5'		1015		Solid			X	X	5	
9	TP-9 STA 134+00 0-1.5'		1035		Solid			X	X	5	
10	TP-10 STA 138+00 0-1.5'		1045		Solid			X	X	5	
11	TP-11 STA 141+00 0-1'	↓	1050	↓	Solid	↓	↓	X	X	5	

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: MSA 17-40411

Empty Kit Relinquished by	Date	Time	Method of Shipment.

	Relinquished by: W Cull	Date/Time: 3/12/2024, 1610	Company: STANTEC	Received by: Chris Root	Date/Time: 3/13/24 1005	Company: EEA
	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
	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: 1.3-1.8

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708 534-5211

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Jiyan Hatami	Phone	Fredrick, Sandie E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin	500-121781-49135 2 Page: Page 2 of 2
Company: Stantec Consulting Corporation	PWSID			Job #: 500-247306
Address: 12080 Corporate Parkway, Suite 200	Due Date Requested			
City: Mequon	TAT Requested (days)			
State, Zip: WI, 53092	Compliance Project: Δ Yes Δ No			
Phone	PO #: 193799000 200			
Email: Jiyan Hatami@stantec.com	WO #			
Project Name: County Rd R/Rapids Rd ROW-193799000 200	Project #: 50006565			
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	Y	Trizma
		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)	8260B - VOC	6010C 7471B, 8270D	Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	N		
12	TP-12 STA 146+00 0-1'	3/12/24	1100	G	Solid	N	N	X	X	3	
13	TP-13 STA 150+00 0-1'		1115		Solid			X	X	3	
14	TP-14 STA 154+00 0-1'		1125		Solid			X	X	3	
15	TP-15 STA [redacted]+00 0-1'		1135		Solid			X	X	3	
16	TP-16 STA 163+00 0-1'		1150		Solid			X	X	3	
17	TP-17 STA 166+25 0-1.5'		1205		Solid			X	X	3	
18	TP-18 STA 170+00 0-1'		1215		Solid			X	X	3	
19	TP-19 STA 174+00 0-1'		1225		Solid			X	X	3	
20	DUP-1		1226		Solid			X		2	
21	TP-20 STA 177+50 0-1'		1235		Solid			X	X	3	
22	TRIP BLANK	—	—	—	Solid			X		1	

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: MS #40411

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/12/24, 1610	STANTEC	[signature]	3/13/24 1005	EEM
2						
3						

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

500-247366 Waybi

3/28/2024

Login Sample Receipt Checklist

Client: Stantec Consulting Corporation

Job Number: 500-247366-1

Login Number: 247366
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT C

cPAH Calculations

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-1 STA 102+00 0-2'	26	9.5E-06	0	0.0437	9.6E-06

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca		0.01			0.0001	6.3E-09
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.014			0.0001	2.5E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.7	6.09E-06	cPAH	0.0393	6.1E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.08			0.	
Acenaphthylene	208-96-8	-	-				0.013				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.34			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.72	6.32E-07	cPAH		6.3E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.99	8.61E-07	cPAH		8.6E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.52				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.32	2.78E-08	cPAH		2.8E-08
Chrysene	218-01-9	-	115.	115.	ca		0.86	7.48E-09	cPAH		7.5E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.15	1.30E-06	cPAH		1.3E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		2.1			0.0009	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.083			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.68	5.91E-07	cPAH		5.9E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.014			0.	8.0E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.015			0.0001	
Phenanthrene	85-01-8	-	-				1.2				
Pyrene	129-00-0	1,790.	-	1,790.	nc		1.6			0.0009	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	3.				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	74.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.23				
Chromium, Total	7440-47-3	-	-			44.	23.				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.034			0.0022	
Lead and Compounds	7439-92-1	400.	-	400.		52.	41.				
Chloroform	67-66-3	259.	0.454	0.454	ca		0.039			0.0002	8.6E-08

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	24	Please do not enter anything in this summary!	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-2 STA 106+00 0-2'				8.1E-07	0	0.0036	8.8E-07
	Bottom-Line:			Yes, levels are below direct-contact concern.			

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca		0.008			0.0001	5.0E-09
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.0062			0.	1.1E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.05	4.35E-07	cPAH	0.0028	4.3E-07
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.007			0.	
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.0091			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.026	2.28E-08	cPAH		2.3E-08
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.033	2.87E-08	cPAH		2.9E-08
Benzo[g,h,i]perylene	191-24-2	-	-				0.041				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.013	1.13E-09	cPAH		1.1E-09
Chrysene	218-01-9	-	115.	115.	ca		0.021	1.83E-10	cPAH		1.8E-10
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.034	2.96E-07	cPAH		3.0E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.059			0.	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.01			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.033	2.87E-08	cPAH		2.9E-08
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0061			0.	3.5E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0069			0.	
Phenanthrene	85-01-8	-	-				0.034				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.049			0.	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	0.47				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	14.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.35				
Chromium, Total	7440-47-3	-	-			44.	3.2				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.0082			0.0005	
Lead and Compounds	7439-92-1	400.	-	400.		52.	0.69				
Chloroform	67-66-3	259.	0.454	0.454	ca		0.028			0.0001	6.2E-08

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	24	Please do not enter anything in this summary!	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-3 STA 110+00 0-2.5'				1.7E-06	0	0.0079	1.8E-06
	Bottom-Line:			Yes, levels are below direct-contact concern.			

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.014			0.0001	2.5E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.1	8.70E-07	cPAH	0.0056	8.7E-07
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.015			0.	
Acenaphthylene	208-96-8	-	-				0.013				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.015			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.046	4.04E-08	cPAH		4.0E-08
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.072	6.26E-08	cPAH		6.3E-08
Benzo[g,h,i]perylene	191-24-2	-	-				0.096				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.029	2.52E-09	cPAH		2.5E-09
Chrysene	218-01-9	-	115.	115.	ca		0.029	2.52E-10	cPAH		2.5E-10
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.075	6.52E-07	cPAH		6.5E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.057			0.	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.022			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.073	6.35E-08	cPAH		6.3E-08
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.013			0.	7.4E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.015			0.0001	
Phenanthrene	85-01-8	-	-				0.024				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.046			0.	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	2.6				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	65.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.29				
Chromium, Total	7440-47-3	-	-			44.	22				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.029			0.0018	
Lead and Compounds	7439-92-1	400.	-	400.		52.	18.				
Chloroform	67-66-3	259.	0.454	0.454	ca		0.029			0.0001	6.4E-08

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-4 STA 114+00 0-1.5'	26	8.9E-07	0	0.1391	9.6E-07
	Bottom-Line:	Yes, levels are below direct-contact concern.			

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca		0.0092			0.0001	5.8E-09
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.0067			0.	1.2E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.055	4.78E-07	cPAH	0.0031	4.8E-07
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.0075			0.	
Acenaphthylene	208-96-8	-	-				0.0063				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.0076			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.03	2.63E-08	cPAH		2.6E-08
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.035	3.04E-08	cPAH		3.0E-08
Benzo[g,h,i]perylene	191-24-2	-	-				0.051				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.014	1.22E-09	cPAH		1.2E-09
Chrysene	218-01-9	-	115.	115.	ca		0.026	2.26E-10	cPAH		2.3E-10
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.037	3.22E-07	cPAH		3.2E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.048			0.	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.011			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.037	3.22E-08	cPAH		3.2E-08
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0066			0.	3.8E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0074			0.	
Phenanthrene	85-01-8	-	-				0.019				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.044			0.	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	2.6				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	53.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.17				
Chromium, Total	7440-47-3	-	-			44.	19.				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.011			0.0007	
Lead and Compounds	7439-92-1	400.	-	400.		52.	54.			0.135	
Chloroform	67-66-3	259.	0.454	0.454	ca		0.027			0.0001	5.9E-08

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	26	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-5 STA 118+00 0-2'			3.2E-06	0	0.3143	3.3E-06
	Bottom-Line:		Yes, levels are below direct-contact concern.			

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca		0.0089			0.0001	5.6E-09
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.013			0.0001	2.4E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.23	2.00E-06	cPAH	0.0129	2.0E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.015			0.	
Acenaphthylene	208-96-8	-	-				0.013				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.062			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.18	1.58E-07	cPAH		1.6E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.27	2.35E-07	cPAH		2.3E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.2				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.092	8.00E-09	cPAH		8.0E-09
Chrysene	218-01-9	-	115.	115.	ca		0.22	1.91E-09	cPAH		1.9E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.073	6.35E-07	cPAH		6.3E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.46			0.0002	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.022			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.21	1.83E-07	cPAH		1.8E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.013			0.	7.4E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.015			0.0001	
Phenanthrene	85-01-8	-	-				0.21				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.38			0.0002	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	1.7				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	39.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.18				
Chromium, Total	7440-47-3	-	-			44.	13.				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.0088			0.0006	
Lead and Compounds	7439-92-1	400.	-	400.		52.	120.			0.3	
Chloroform	67-66-3	259.	0.454	0.454	ca		0.035			0.0001	7.7E-08

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	24	Please do not enter anything in this summary!	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-6 STA 122+00 0-1.5'				3.2E-06	0	0.1528	3.3E-06
	Bottom-Line:			Yes, levels are below direct-contact concern.			

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.014			0.0001	2.5E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.23	2.00E-06	cPAH	0.0129	2.0E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.015			0.	
Acenaphthylene	208-96-8	-	-				0.013				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.053			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.18	1.58E-07	cPAH		1.6E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.22	1.91E-07	cPAH		1.9E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.19				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.09	7.83E-09	cPAH		7.8E-09
Chrysene	218-01-9	-	115.	115.	ca		0.18	1.57E-09	cPAH		1.6E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.074	6.43E-07	cPAH		6.4E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.42			0.0002	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.022			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.2	1.74E-07	cPAH		1.7E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.013			0.	7.4E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.015			0.0001	
Phenanthrene	85-01-8	-	-				0.22				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.35			0.0002	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	3.				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	72.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.33				
Chromium, Total	7440-47-3	-	-			44.	22				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.025			0.0016	
Lead and Compounds	7439-92-1	400.	-	400.		52.	55.			0.1375	
Chloroform	67-66-3	259.	0.454	0.454	ca		0.048			0.0002	1.1E-07

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	24	Please do not enter anything in this summary!	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-7 STA 126+00 0-1.5'				1.1E-06	0	0.005	1.2E-06
	Bottom-Line:			Yes, levels are below direct-contact concern.			

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca		0.0094			0.0001	5.9E-09
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.0065			0.	1.2E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.073	6.35E-07	cPAH	0.0041	6.3E-07
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.0073			0.	
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.0093			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.044	3.86E-08	cPAH		3.9E-08
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.062	5.39E-08	cPAH		5.4E-08
Benzo[g,h,i]perylene	191-24-2	-	-				0.066				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.021	1.83E-09	cPAH		1.8E-09
Chrysene	218-01-9	-	115.	115.	ca		0.048	4.17E-10	cPAH		4.2E-10
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.036	3.13E-07	cPAH		3.1E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.097			0.	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.011			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.057	4.96E-08	cPAH		5.0E-08
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0064			0.	3.6E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0072			0.	
Phenanthrene	85-01-8	-	-				0.037				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.078			0.	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	2.				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	31.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.12				
Chromium, Total	7440-47-3	-	-			44.	14				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.0094			0.0006	
Lead and Compounds	7439-92-1	400.	-	400.		52.	19.				
Chloroform	67-66-3	259.	0.454	0.454	ca		0.026			0.0001	5.7E-08

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	26	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-8 STA 130+00 0-1.5'			1.4E-05	0	0.0592	1.4E-05
	Bottom-Line:	**NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**				

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca		0.0095			0.0001	5.9E-09
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.013			0.0001	2.4E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		1.	8.70E-06	cPAH	0.0562	8.7E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.044			0.	
Acenaphthylene	208-96-8	-	-				0.015				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.12			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.75	6.58E-07	cPAH		6.6E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		1.5	1.30E-06	cPAH		1.3E-06
Benzo[g,h,i]perylene	191-24-2	-	-				0.93				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.66	5.74E-08	cPAH		5.7E-08
Chrysene	218-01-9	-	115.	115.	ca		1.2	1.04E-08	cPAH		1.0E-08
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.23	2.00E-06	cPAH		2.0E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		2.4			0.001	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.048			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		1.2	1.04E-06	cPAH		1.0E-06
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.013			0.	7.4E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.015			0.0001	
Phenanthrene	85-01-8	-	-				1.				
Pyrene	129-00-0	1,790.	-	1,790.	nc		1.9			0.0011	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	1.4				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	24.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.21				
Chromium, Total	7440-47-3	-	-			44.	13.				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.0097			0.0006	
Lead and Compounds	7439-92-1	400.	-	400.		52.	14.				
Chloroform	67-66-3	259.	0.454	0.454	ca		0.024			0.0001	5.3E-08

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	24	Please do not enter anything in this summary!	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-9 STA 134+00 0-1.5'				1.9E-06	0	0.0092	2.0E-06
	Bottom-Line:			Yes, levels are below direct-contact concern.			

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca		0.0087			0.0001	5.4E-09
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.0064			0.	1.2E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.14	1.22E-06	cPAH	0.0079	1.2E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.0072			0.	
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.019			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.11	9.65E-08	cPAH		9.6E-08
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.18	1.57E-07	cPAH		1.6E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.11				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.066	5.74E-09	cPAH		5.7E-09
Chrysene	218-01-9	-	115.	115.	ca		0.13	1.13E-09	cPAH		1.1E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.041	3.57E-07	cPAH		3.6E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.24			0.0001	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.01			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.13	1.13E-07	cPAH		1.1E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0063			0.	3.6E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0071			0.	
Phenanthrene	85-01-8	-	-				0.097				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.21			0.0001	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	1.1				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	24.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.2				
Chromium, Total	7440-47-3	-	-			44.	9.0				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.014			0.0009	
Lead and Compounds	7439-92-1	400.	-	400.		52.	35.				
Chloroform	67-66-3	259.	0.454	0.454	ca		0.026			0.0001	5.7E-08

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	24	Please do not enter anything in this summary!	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-10 STA 138+00 0-1.5'				5.2E-06	0	0.0238	5.2E-06

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.013			0.0001	2.4E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.38	3.30E-06	cPAH	0.0213	3.3E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.032			0.	
Acenaphthylene	208-96-8	-	-				0.013				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.13			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.33	2.89E-07	cPAH		2.9E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.51	4.43E-07	cPAH		4.4E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.35				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.17	1.48E-08	cPAH		1.5E-08
Chrysene	218-01-9	-	115.	115.	ca		0.41	3.57E-09	cPAH		3.6E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.092	8.00E-07	cPAH		8.0E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.91			0.0004	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.033			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.37	3.22E-07	cPAH		3.2E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.013			0.	7.4E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.015			0.0001	
Phenanthrene	85-01-8	-	-				0.49				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.76			0.0004	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	1.9				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	36.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.22				
Chromium, Total	7440-47-3	-	-			44.	12				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.02			0.0013	
Lead and Compounds	7439-92-1	400.	-	400.		52.	49.				
Chloroform	67-66-3	259.	0.454	0.454	ca		0.024			0.0001	5.3E-08

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	24	Please do not enter anything in this summary!	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-11 STA 141+00 0-1'				1.2E-06	0	0.1511	1.2E-06
	Bottom-Line:			Yes, levels are below direct-contact concern.			

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca		0.01			0.0001	6.3E-09
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.007			0.	1.3E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.077	6.70E-07	cPAH	0.0043	6.7E-07
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.0079			0.	
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.008			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.041	3.60E-08	cPAH		3.6E-08
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.076	6.61E-08	cPAH		6.6E-08
Benzo[g,h,i]perylene	191-24-2	-	-				0.068				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.023	2.00E-09	cPAH		2.0E-09
Chrysene	218-01-9	-	115.	115.	ca		0.051	4.43E-10	cPAH		4.4E-10
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.039	3.39E-07	cPAH		3.4E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.11			0.	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.012			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.053	4.61E-08	cPAH		4.6E-08
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.007			0.	4.0E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0078			0.	
Phenanthrene	85-01-8	-	-				0.049				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.092			0.0001	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	2.9				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	68.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.053				
Chromium, Total	7440-47-3	-	-			44.	20				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.022			0.0014	
Lead and Compounds	7439-92-1	400.	-	400.		52.	58.			0.145	
Chloroform	67-66-3	259.	0.454	0.454	ca		0.025			0.0001	5.5E-08

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	24	Please do not enter anything in this summary!	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-12 STA 146+00 0-1'				1.6E-06	0	0.0076	1.7E-06
	Bottom-Line:			Yes, levels are below direct-contact concern.			

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca		0.0098			0.0001	6.1E-09
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.0069			0.	1.3E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.11	9.57E-07	cPAH	0.0062	9.6E-07
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.0077			0.	
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.0078			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.06	5.26E-08	cPAH		5.3E-08
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.15	1.30E-07	cPAH		1.3E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.12				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.049	4.26E-09	cPAH		4.3E-09
Chrysene	218-01-9	-	115.	115.	ca		0.096	8.35E-10	cPAH		8.3E-10
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.038	3.30E-07	cPAH		3.3E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.15			0.0001	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.011			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.12	1.04E-07	cPAH		1.0E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0068			0.	3.9E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0076			0.	
Phenanthrene	85-01-8	-	-				0.049				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.13			0.0001	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	1.5				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	30.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.2				
Chromium, Total	7440-47-3	-	-			44.	13				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.016			0.001	
Lead and Compounds	7439-92-1	400.	-	400.		52.	8.8				
Chloroform	67-66-3	259.	0.454	0.454	ca		0.029			0.0001	6.4E-08

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	24	Please do not enter anything in this summary!	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-13 STA 150+00 0-1'				1.5E-06	0	0.0076	1.5E-06
	Bottom-Line:			Yes, levels are below direct-contact concern.			

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca		0.0098			0.0001	6.1E-09
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.007			0.	1.3E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.1	8.70E-07	cPAH	0.0056	8.7E-07
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.0079			0.	
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.0079			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.058	5.09E-08	cPAH		5.1E-08
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.12	1.04E-07	cPAH		1.0E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.097				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.047	4.09E-09	cPAH		4.1E-09
Chrysene	218-01-9	-	115.	115.	ca		0.072	6.26E-10	cPAH		6.3E-10
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.039	3.39E-07	cPAH		3.4E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.11			0.	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.011			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.095	8.26E-08	cPAH		8.3E-08
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0069			0.	3.9E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0078			0.	
Phenanthrene	85-01-8	-	-				0.031				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.1			0.0001	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	2.3				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	40.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.18				
Chromium, Total	7440-47-3	-	-			44.	14				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.025			0.0016	
Lead and Compounds	7439-92-1	400.	-	400.		52.	14.				
Chloroform	67-66-3	259.	0.454	0.454	ca		0.025			0.0001	5.5E-08

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	26	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-14 STA 154+00 0-1'			3.3E-06	0	0.0147	3.4E-06
	Bottom-Line:		Yes, levels are below direct-contact concern.			

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca		0.0097			0.0001	6.1E-09
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.013			0.0001	2.4E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.24	2.09E-06	cPAH	0.0135	2.1E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.015			0.	
Acenaphthylene	208-96-8	-	-				0.013				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.02			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.14	1.23E-07	cPAH		1.2E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.28	2.43E-07	cPAH		2.4E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.26				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.093	8.09E-09	cPAH		8.1E-09
Chrysene	218-01-9	-	115.	115.	ca		0.17	1.48E-09	cPAH		1.5E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.074	6.43E-07	cPAH		6.4E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.32			0.0001	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.022			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.27	2.35E-07	cPAH		2.3E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.013			0.	7.4E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.015			0.0001	
Phenanthrene	85-01-8	-	-				0.11				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.27			0.0002	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	2.2				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	35.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.16				
Chromium, Total	7440-47-3	-	-			44.	15.				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.0096			0.0006	
Lead and Compounds	7439-92-1	400.	-	400.		52.	7.6				
Chloroform	67-66-3	259.	0.454	0.454	ca		0.025			0.0001	5.5E-08

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	26	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-15 STA 158+00 0-1'			6.2E-06	0	0.0263	6.3E-06

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca		0.009			0.0001	5.6E-09
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.013			0.0001	2.4E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.44	3.83E-06	cPAH	0.0247	3.8E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.015			0.	
Acenaphthylene	208-96-8	-	-				0.012				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.032			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.28	2.46E-07	cPAH		2.5E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.66	5.74E-07	cPAH		5.7E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.48				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.27	2.35E-08	cPAH		2.3E-08
Chrysene	218-01-9	-	115.	115.	ca		0.47	4.09E-09	cPAH		4.1E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.12	1.04E-06	cPAH		1.0E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.75			0.0003	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.021			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.56	4.87E-07	cPAH		4.9E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.013			0.	7.4E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.015			0.0001	
Phenanthrene	85-01-8	-	-				0.2				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.59			0.0003	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	1.5				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	27.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.18				
Chromium, Total	7440-47-3	-	-			44.	12.				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.0091			0.0006	
Lead and Compounds	7439-92-1	400.	-	400.		52.	8.1				
Chloroform	67-66-3	259.	0.454	0.454	ca		0.031			0.0001	6.8E-08

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	26	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-16 STA 163+00 0-1'			8.9E-06	0	0.0391	9.0E-06
	Bottom-Line:	**NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**				

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca		0.01			0.0001	6.3E-09
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.014			0.0001	2.5E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.65	5.65E-06	cPAH	0.0365	5.7E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.016			0.	
Acenaphthylene	208-96-8	-	-				0.013				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.046			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.46	4.04E-07	cPAH		4.0E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		1.	8.70E-07	cPAH		8.7E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.62				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.34	2.96E-08	cPAH		3.0E-08
Chrysene	218-01-9	-	115.	115.	ca		0.68	5.91E-09	cPAH		5.9E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.15	1.30E-06	cPAH		1.3E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		1.3			0.0005	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.023			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.76	6.61E-07	cPAH		6.6E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.014			0.	8.0E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.016			0.0001	
Phenanthrene	85-01-8	-	-				0.35				
Pyrene	129-00-0	1,790.	-	1,790.	nc		1.1			0.0006	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	2.4				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	47.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.19				
Chromium, Total	7440-47-3	-	-			44.	15.				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.017			0.0011	
Lead and Compounds	7439-92-1	400.	-	400.		52.	14.				
Chloroform	67-66-3	259.	0.454	0.454	ca		0.032			0.0001	7.0E-08

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	24	Please do not enter anything in this summary!	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-17 STA 166+25 0-1.5'				1.0E-05	0	0.2648	1.0E-05
	Bottom-Line:		**NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**				

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.013			0.0001	2.4E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.71	6.17E-06	cPAH	0.0399	6.2E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.029			0.	
Acenaphthylene	208-96-8	-	-				0.015				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.13			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.56	4.91E-07	cPAH		4.9E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		1.1	9.57E-07	cPAH		9.6E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.68				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.38	3.30E-08	cPAH		3.3E-08
Chrysene	218-01-9	-	115.	115.	ca		0.78	6.78E-09	cPAH		6.8E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.18	1.57E-06	cPAH		1.6E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		1.4			0.0006	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.032			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.87	7.57E-07	cPAH		7.6E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.013			0.	7.4E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.014			0.0001	
Phenanthrene	85-01-8	-	-				0.54				
Pyrene	129-00-0	1,790.	-	1,790.	nc		1.1			0.0006	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	2.				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	30.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.31				
Chromium, Total	7440-47-3	-	-			44.	12				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.013			0.0008	
Lead and Compounds	7439-92-1	400.	-	400.		52.	89.			0.2225	
Chloroform	67-66-3	259.	0.454	0.454	ca		0.023			0.0001	5.1E-08

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	24	Please do not enter anything in this summary!	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-18 STA 170+00 0-1'				5.3E-06	0	0.0231	5.4E-06

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.014			0.0001	2.5E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.38	3.30E-06	cPAH	0.0213	3.3E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.016			0.	
Acenaphthylene	208-96-8	-	-				0.013				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.035			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.25	2.19E-07	cPAH		2.2E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.52	4.52E-07	cPAH		4.5E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.41				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.16	1.39E-08	cPAH		1.4E-08
Chrysene	218-01-9	-	115.	115.	ca		0.34	2.96E-09	cPAH		3.0E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.11	9.57E-07	cPAH		9.6E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.6			0.0003	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.023			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.42	3.65E-07	cPAH		3.7E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.014			0.	8.0E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.016			0.0001	
Phenanthrene	85-01-8	-	-				0.23				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.51			0.0003	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	1.2				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	32.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.17				
Chromium, Total	7440-47-3	-	-			44.	23				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.014			0.0009	
Lead and Compounds	7439-92-1	400.	-	400.		52.	11.				
Chloroform	67-66-3	259.	0.454	0.454	ca		0.026			0.0001	5.7E-08

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	24	Please do not enter anything in this summary!	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-19 STA 174+00 0-1'				6.4E-06	0	0.0276	6.4E-06
	Bottom-Line:		**NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**				

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca		0.01			0.0001	6.3E-09
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.014			0.0001	2.5E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.46	4.00E-06	cPAH	0.0258	4.0E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.017			0.	
Acenaphthylene	208-96-8	-	-				0.013				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.053			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.34	2.98E-07	cPAH		3.0E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.71	6.17E-07	cPAH		6.2E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.46				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.24	2.09E-08	cPAH		2.1E-08
Chrysene	218-01-9	-	115.	115.	ca		0.47	4.09E-09	cPAH		4.1E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.11	9.57E-07	cPAH		9.6E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.91			0.0004	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.023			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.55	4.78E-07	cPAH		4.8E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.014			0.	8.0E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.016			0.0001	
Phenanthrene	85-01-8	-	-				0.42				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.78			0.0004	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	1.6				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	32.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.22				
Chromium, Total	7440-47-3	-	-			44.	19				
Lead and Compounds	7439-92-1	400.	-	400.		52.	14.				
Chloroform	67-66-3	259.	0.454	0.454	ca		0.025			0.0001	5.5E-08

NR 722 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries:	24	Please do not enter anything in this summary!	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
TP-20 STA 177+50 0-1'				3.5E-06	0	0.0154	3.6E-06
	Bottom-Line:			Yes, levels are below direct-contact concern.			

Date of Entry: 3/28/2024.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.013			0.0001	2.4E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.25	2.17E-06	cPAH	0.014	2.2E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.015			0.	
Acenaphthylene	208-96-8	-	-				0.013				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.064			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.2	1.75E-07	cPAH		1.8E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.3	2.61E-07	cPAH		2.6E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.25				
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.096	8.35E-09	cPAH		8.3E-09
Chrysene	218-01-9	-	115.	115.	ca		0.23	2.00E-09	cPAH		2.0E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.074	6.43E-07	cPAH		6.4E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.48			0.0002	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.022			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.27	2.35E-07	cPAH		2.3E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.013			0.	7.4E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.015			0.0001	
Phenanthrene	85-01-8	-	-				0.23				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.39			0.0002	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	1.4				
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	25.				
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.27				
Chromium, Total	7440-47-3	-	-			44.	11				
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.0094			0.0006	
Lead and Compounds	7439-92-1	400.	-	400.		52.	44.				
Chloroform	67-66-3	259.	0.454	0.454	ca		0.023			0.0001	5.1E-08