REPORT

Phase II Environmental Site Assessment

Proposed Freud Pump Station Isolation Shaft Project

GLWA CS-120, Arcadis Project No. 30047523

Detroit, Michigan

Arcadis of Michigan, LLC
607 Shelby Street, Suite 400
Detroit, MI 48226

January 21, 2022

NTH Project No. 61-200414-02C

NTH Consultants, Ltd.
41780 Six Mile Road, Suite 200
Northville, MI 48168



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Jeff Swartz, P.E.
Arcadis of Michigan, LLC
607 Shelby Street, Suite 400
Detroit, Michigan 48226

January 21, 2022
NTH Project No. 61-200414-02C

RE: Report on Phase II Environmental Site Assessment
Proposed Freud Pump Station Isolation Shaft Project
GLWA CS-120, Arcadis Project No. 30047523
707 Conner and 687 Navahoe Streets
Detroit, Michigan

Dear Mr. Swartz:

NTH Consultants, Ltd. (NTH) is pleased to submit this report on Phase II Environmental Site Assessment (ESA) for the above referenced project. This study was performed in accordance with the scope of services outlined in our proposal (NTH Proposal No. 61-200414-DD) dated September 23, 2021.

We appreciate the opportunity to assist you with this project. Should you have any questions or require additional information, please call us at 248-662-2741.

Sincerely,

NTH Consultants, Ltd.

DocuSigned by:
CC62C3695D554CC...

Cliff J. Andrews
Principal Professional

DocuSigned by:
Charles J Roarty Jr
1B505E3681BF483...

Charles J. Roarty, Jr. P.E.
Senior Vice President

CJA/CJR/mam

Attachments

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1.0 EXECUTIVE SUMMARY

This report presents the results of a Phase II Environmental Site Assessment (ESA) for the Proposed Freud Pump Station Isolation Shaft project in Detroit, Michigan. Great Lakes Water Authority (GLWA) intends to purchase the following parcels:

Street Address	Parcel Information
707 Conner Street	The parcel is approximately 2,940 square feet in size and is vacant land.
687 Navahoe Street	The parcel is approximately 3,500 square feet in size and is vacant land.

NTH conducted a Phase I ESA for 32 parcels associated with this project and the results were provided in a report dated September 17, 2021.

The Phase II ESA was conducted to evaluate Phase I ESA-identified recognized environmental conditions (RECs) at 707 Conner and 687 Navahoe Street parcels. This study included drilling soil borings and collection and analysis of soil samples.

The results of soil analysis identified Trichloroethylene (volatile organic compound), Phenanthrene (polynuclear aromatic compound), and heavy metals above Michigan Department of Environment, Great Lakes, and Energy (EGLE) – Part 201 generic residential cleanup criteria and screening levels (GRCC). Thus, based upon these results, both parcels are *facility,* as defined by 1994 P.A. 451, Part 201, as amended.

Mercury and Trichloroethylene were detected above EGLE's Nonresidential Volatilization to Indoor Pathway (VIAP) Screening Levels.

This summary should not be reviewed separately from the remainder of the report, and is not a substitute for a thorough review of the entire report.

2.0 INTRODUCTION

NTH Consultants, Ltd. (NTH) was retained by Arcadis of Michigan, LLC (Arcadis) on behalf of Great Lakes Water Authority (GLWA) to conduct a Phase II Environmental Site Assessment (ESA) for the Freud Pump Station Isolation Shaft (FPSIS) project in Detroit, Michigan.

NTH conducted a Phase I ESA for the 32 parcels that are part of FPSIS project, and the results of that study were presented in a report dated September 17, 2021. NTH issued a Report on Phase II Environmental Site Assessment for 13 of the 19 parcels to be acquired by GLWA on December 23, 2021. This Phase II ESA focusses on the following two parcels that are collectively referenced as property in this report:

Street Address	Parcel Information
707 Conner Street	The parcel is approximately 2,940 square feet in size and is vacant land.
687 Navahoe Street	The parcel is approximately 3,500 square feet in size and is vacant land.

NTH's Phase I ESA identified the following evidence of recognized environmental conditions (RECs) at the property:

- The property formerly contained residential structures. It is unknown if all the former structures had basements. The environmental nature and origin of the fill soils used during demolition activity specifically to backfill the basement excavations are unknown.

The objective of this Phase II ESA is to evaluate the RECs identified at the property to the extent possible and where access was feasible.

3.0 SCOPE OF SERVICES

The scope of services for the Phase II ESA comprised of the following key tasks:

- Soil borings were drilled to evaluate the RECs, and to facilitate the collection of soil samples for analyses.
- Soil samples were screened in the field for the presence of total volatile organic compounds (VOCs) using a portable photoionization detector (PID).
- Representative soil samples were submitted to NTH's subcontracted laboratory for analyses.
- Information gathered during the Phase II ESA was evaluated and this report was prepared.

4.0 FIELD INVESTIGATION

Two geoprobe borings, designated as GP-6 and GP-10 were drilled on January 7, 2022, by Fibertec Environmental Services (FES), NTH's subcontractor. The borings were observed by Andrew Kelly of NTH and were advanced to approximate depths of 15 feet. The rationale for the locating the borings is presented in the following table:

Boring No.	Parcel	Rationale
6	707 Conner Street	Evaluate backfill soil used during demolition of former residential dwelling.
10	687 Navahoe Street	Evaluate backfill soil used during demolition of former residential dwelling.

The approximate locations of the borings are depicted on the Boring Location Plan in Appendix A.

The geoprobe drilling technique involves mechanically driving or pushing a 2-inch outside diameter stainless steel sampling tool, with a disposable clear acetate liner, to a desired sampling depth. This technique does not generate soil cuttings because the geoprobe rods push soils away from the rods as the tool string advances through the hole. The geoprobe equipment/tools were steam-cleaned prior to use and between each successive boring location to minimize the possibility of cross-contamination. Upon completion of drilling activities and after collecting samples, the boreholes were backfilled with excavated soil and hydrated bentonite chips.

Soil samples retrieved from the borings were screened in the field with RAE Systems MiniRae™ PID. The PID is capable of detecting total volatile organic compounds (VOCs) to a detection level of one part per million (ppm). The PID was calibrated prior to taking field measurements. The field PID measurements on the soil samples are shown on the boring logs in Appendix A. As indicated, PID readings ranged from less than the detection limit of the instrument to about 1.9 ppm. Petroleum odors were noted in a soil sample S-2 collected from GP-6.

5.0 SUBSURFACE DATA

Subsurface conditions observed in each boring are presented on the Log of Geoprobe Borings in Appendix A. The stratification shown on the boring logs represents the approximate boundary between soil types; the actual transition may be more gradual. In addition, the soil layers are described based on field classification of observed soil samples; accordingly, the soil layer descriptions are considered generalized.

The subsurface conditions at the boring locations were comprised of up to 5 feet of sandy and clayey fill soil mixed with pieces of brick, glass, and wood (typical urban fill). The fill soil is underlain by native clayey soils to the explored depths. No groundwater was encountered in the borings.

6.0 ANALYTICAL TESTING

Soil samples for analysis were selected based on the results of the field screening including visual and olfactory observations, and PID measurements. The samples were placed in laboratory-supplied containers and stored in an ice-chilled cooler. The samples were released to FES' laboratory in accordance with NTH's chain-of-custody procedures.

The analytical parameters included VOCs, polynuclear aromatic compounds (PNAs), and the Michigan 10 metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc). The soil samples submitted for VOC analysis were prepared in the field using Michigan-modified methanol preservation (EPA Method 5035). Laboratory data for the soil samples are included in Appendix B.

7.0 EVALUATION OF ANALYTICAL DATA

The soil analytical data were compared to the EGLE-established GRCC, dated December 30, 2013, and updated June 25, 2018, pursuant to 1994 P.A. 451, Part 201, as amended. Specifically, the results were compared to the Part 201 residential direct contact (DC) criteria, drinking water protection (DWP) criteria, groundwater/surface water interface protection (GSIP) criteria, soil volatilization to indoor air criteria (SVIIC), infinite source soil volatilization to ambient air criteria (VSIC), particulate soil inhalation criteria (PSIC), soil saturation concentration screening levels (SSCSL).

The results of heavy metals analysis were also compared to the statewide default background (SWDB) concentrations as established by EGLE. The results of metals analysis were only compared to GRCC if the concentration of that metal was above the SWDB.

The soil data were also compared to the EGLE's Nonresidential Volatilization to Indoor Pathway (VIAP) Screening Levels, dated September 4, 2020. The sample information and soil analytical data along with Part 201 GRCC are summarized in a table in Appendix A.

7.1 Volatile Organic Compounds (VOCs)

VOCs in the soil samples were either not detected above laboratory method detection limits (MDLs) or where detected, the reported levels were below Part 201 GRCC, except for the following:

Contaminant	Boring / Sample Location	GRCC Exceeded
Trichloroethylene	GP-10 / S-1	DWP

Trichloroethylene was also detected above EGLE's Nonresidential VIAP Screening Level.

7.2 Polynuclear Aromatics (PNAs)

The analyzed PNAs in the soil samples were either not detected above MDLs or where detected, the reported levels were below Part 201 GRCC, except for the following:

Contaminant	Boring / Sample Location	GRCC Exceeded
Phenanthrene	GP-6 / S-2	GSIP

No PNAs were detected above EGLE's Nonresidential VIAP Screening Levels.

7.3 Heavy Metals

The following heavy metals were detected in the soil samples above Part 201 GRCC:

Metal	Boring / Sample Location	GRCC Exceeded
Arsenic	GP-6 / S-1, S-2 and GP-10 / S-1	DWP, GSIP, and DC
Barium	GP-10 / S-2	GSIP
	GP-10 / S-1	DWP and GSIP
Cadmium	GP-10 / S-1	DWP and GSIP
Chromium	GP-6 / S-1	GSIP
	GP-10 / S-1	DWP, GSIP, and PSIC
Copper	GP-6 / S-1	GSIP
Lead	GP-10 / S-2	DC
	GP-10 / S-1	DWP and DC
Mercury	GP-6 / S-2	GSIP
	GP-10 / S-1	DWP and GSIP
Selenium	GP-6 / S-1, S-2 and GP-10 / S-1, S-2	GSIP
Silver	GP-10 / S-1	DWP and GSIP
Zinc	GP-6 / S-2 and GP-10 / S-2	GSIP

Mercury was detected above EGLE's Nonresidential VIAP Screening Levels.

8.0 CONCLUSIONS

NTH's Phase II ESA at the property comprised drilling of two soil borings, and collection and analysis of soil samples to evaluate the RECs identified during the Phase I ESA. The following analytical parameters were identified above Part 201 GRCC in the soil samples:

Parcel	Boring Location	Contaminant	CAS Nos.	Part 201 GRCC Exceeded
707 Conner Street	GP-6	Arsenic	7440-38-2	DWP, GSIP, and DC
		Chromium	7440-47-3	GSIP
		Copper	7440-50-8	GSIP
		Mercury	7439-97-6	GSIP
		Selenium	7782-49-2	GSIP
		Zinc	7440-66-6	GSIP
		Phenanthrene	85-01-8	GSIP
687 Navahoe Street	GP-10	Arsenic	7440-38-2	DWP, GSIP, and DC
		Barium	7440-39-3	DWP and GSIP
		Cadmium	7440-43-9	DWP and GSIP
		Chromium	7440-47-3	DWP, GSIP, and PSIC
		Lead	7439-92-1	DWP and DC
		Mercury	7439-97-6	DWP and GSIP
		Selenium	7782-49-2	GSIP
		Silver	7440-22-4	DWP and GSIP
		Zinc	7440-66-6	GSIP
		Trichloroethylene	79-01-6	DWP

Based on the above data, the property is a *facility,* as defined by 1994 P.A. 451, Part 201, as amended. *According to Section 20101(1)(s) of Part 201 of NREPA (1994 P.A. 451, as amended), facility means any area, place, or property where a hazardous substance in excess of the concentrations that satisfy the cleanup criteria for unrestricted residential use has been released, deposited, disposed of, or otherwise comes to be located.*

Mercury and Trichloroethylene were detected above EGLE's Nonresidential Volatilization to Indoor Pathway (VIAP) Screening Levels. The exceedance of the VIAP Screening Levels is indicative of potential vapor intrusion in enclosed structures or indoor air quality risk. As such, further evaluation comprised of soil gas sampling and analysis will be required if the future development plans for enclosed structures at the property.

GLWA intends to purchase the property. Accordingly, as a new owner, GLWA is eligible to submit a Baseline Environmental Assessment (BEA) report to EGLE, provided this report is prepared within 45 days of acquiring the property. The BEA provides certain statutory protection to the new (non-liable) owners and operators of the *facility* against cleanup liability for pre-existing subsurface contamination.

Under Section 20107a of Part 201, the new owner/operator of the *facility* has the following due care obligations:

1. Prevent exacerbation of the existing contamination.

2. Prevent unacceptable human exposure and mitigate fire and explosion hazards to allow for the intended use of the facility in a manner that protects the public health and safety.

3. Take reasonable precautions against the reasonably foreseeable acts or omissions of a third party.

4. Provide reasonable cooperation, assistance, and access to the persons that are authorized to conduct response activities at the property.

5. Comply with any land use or resource use restrictions established or relied on in connection with the response activities.

6. Not impede the effectiveness or integrity of any land use or resource use restriction.

A Plan for Due Care Compliance meeting the above obligations is recommended once the future development plans for the property are formalized.

9.0 LIMITATIONS

The evaluations and conclusions presented in this report have been made to assist the user of this study in making a reasonable assessment of risk with respect to subsurface contamination at the property from the RECs identified during the Phase I ESA. Considering the limited scope of the present investigation, data collection and testing, our findings should not be construed as absolute certainties, but rather as probabilities based on our professional judgment. NTH cannot offer any form of warranty or guarantee with respect to the type and extent of hazardous substances on the property, other than those identified and discussed in this report.

This report is for the use and benefit of and may be relied upon by Great Lakes Water Authority, Arcadis of Michigan LLC, and any of their respective affiliates, successors, and assigns, in connection with a commercial real estate transaction involving the subject property, and in accordance with the terms and conditions in place between NTH and Arcadis for this project.

This report presents NTH's opinion of the property as of the report's publication date, based on the results of this study and on the information provided during the course of the study. The results of this study may not be relied upon by parties other than those identified above without the prior knowledge and written consent of NTH.

Any authorized third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in this report, and with the acknowledgment that actual site conditions may change with time, and that hidden conditions may exist at the property that were not discovered within the authorized scope of the assessment.

Any use by or distribution of this report to any unauthorized third parties, without the express written consent of NTH is at the sole risk and expense of such third party. In the absence of a written agreement with NTH granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against NTH or its officers, employees, vendors, affiliates successors or assigns. Any such unauthorized user shall be responsible to protect, indemnify and hold NTH and its respective officers, employees, vendors, affiliates, successors and assigns harmless from any and all claims, damages, losses, liabilities, expenses including attorneys' fees and costs attributable to such use. Unauthorized use of this report shall constitute acceptance of and commitment to these responsibilities, which shall be irrevocable and shall apply regardless of the cause of action or legal theory pled or asserted.

APPENDIX A

Boring Location Plan;

Log of Geoprobe Borings;

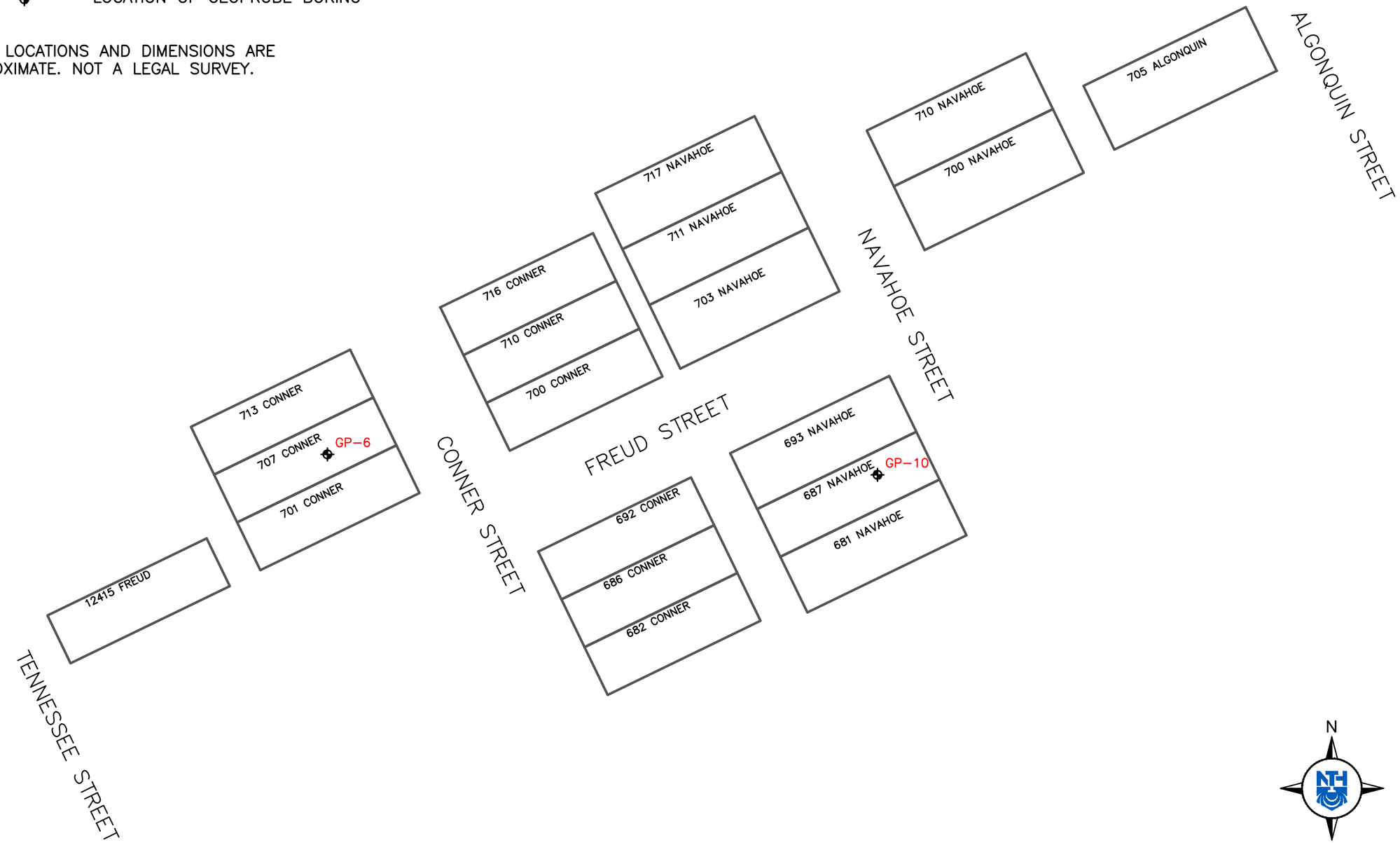
Analytical Summary Table

LEGEND

LIMITS OF STUDY

GP-1 LOCATION OF GEOPROBE BORING

NOTE: LOCATIONS AND DIMENSIONS ARE APPROXIMATE. NOT A LEGAL SURVEY.



N

0 30' 60'

SCALE

NTH Consultants, Ltd.
Infrastructure Engineering and Environmental Services

NTH PROJECT No.: 61-200414-02C	CAD FILE NAME: 200414-BLP(2)
DESIGNED BY: ACK	PLOT DATE: 1/18/2022
DRAWN BY: ACK	DRAWING SCALE: 1" = 60'
CHECKED BY: CJA	INCEPTION DATE: 1/7/2022

BORING LOCATION PLAN

GLWA FREUD PUMP STATION ISOLATION SHAFT
707 CONNER AND 687 NAVAHOE PARCELS
DETROIT, MICHIGAN

FIGURE: 1

j:\2020\61\200414\reports\env\task 2\200414-blp(2).dwg Plotted: 1/18/2022 12:16 PM by akelly

PROJECT NO: 61-200414-02C	NTH CONSULTANTS, LTD.	SHEET 1 OF 1

LOG OF GEOPROBE BORINGS

GP NO.	GROUND SURFACE ELEV.	DEPTH (FT)	SOIL DESCRIPTION	DISCRETE SAMPLE INFO.			
				SAMPLE NO.	DEPTH (FT) FROM	DEPTH (FT) TO	PID READING (PPM)
GP-6	N/A	0.0-2.5	**FILL:** BROWN **LOAMY SAND** WITH GRAVEL, AND PIECES OF GLASS AND BRICK		0.0	1.0	<1
					1.0	1.5	<1
				S-1*	1.5	2.5	<1
		2.5-4.0	**FILL:** DARK BROWN **CLAY**		2.5	3.5	<1
					3.5	4.0	<1
		4.0-5.0	**FILL:** BLACK STAINED **LOAM** WITH PIECES OF BRICK AND WOOD (PETROLEUM ODOR)	S-2*	4.0	5.0	1.9
		5.0-11.0	BROWN AND GRAY **CLAY**		5.0	6.0	<1
					6.0	8.0	<1
					8.0	10.0	<1
		11.0-15.0	BROWN **CLAY**		10.0	12.0	<1
					12.0	14.0	<1
					14.0	15.0	<1
			NO GROUNDWATER ENCOUNTERED				
GP-10	N/A	0.0-1.5	**FILL:** DARK BROWN **SAND** WITH GRAVEL, AND PIECES OF GLASS		0.0	1.0	<1
				S-1*	1.0	2.0	<1
		1.5-4.0	**FILL:** DARK BROWN **SANDY CLAY LOAM** WITH PIECES OF BRICK		2.0	3.0	<1
				S-2*	3.0	4.0	<1
		4.0-9.0	BROWN AND GRAY **CLAY**		4.0	5.0	<1
					5.0	6.0	<1
					6.0	8.0	<1
		9.0-13.0	GRAY **CLAY**		8.0	10.0	<1
					10.0	12.0	<1
		13.0-15.0	BROWN **CLAY**		12.0	14.0	<1
					14.0	15.0	<1
			NO GROUNDWATER ENCOUNTERED				

NOTES:

- BORINGS BACKFILLED WITH SOIL CUTTINGS & HYDRATED BENTONITE PELLETS AFTER OBTAINING SOIL AND/OR WATER SAMPLES.
- BORINGS OBSERVED BY A. KELLY OF NTH CONSULTANTS, LTD.
- SOIL CLASSIFICATION BASED SOLELY ON VISUAL OBSERVATION.
- * SAMPLE SUBMITTED FOR ANALYTICAL TESTING.

DRILLED BY: FIBERTEC ENVIRONMENTAL SERVICES **DATE:** JANUARY 7, 2022 **FIGURE NO: 2**

Table 1: SUMMARY OF CHEMICAL ANALYSES
707 Conner Street and 687 Navahoe Street Parcels
NTH Project No. 61-200414-02C

Sample Designation	Sample Depth	Sample Date	Michigan 10 Metals										VOCs				PNAs										
			Arsenic	Barium	Cadmium	Chromium, Total	Copper	Lead	Mercury, Total	Selenium	Silver	Zinc	Ethylbenzene	Toluene	Trichloroethylene	Xylenes	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene
			7440-38-2	7440-39-3	7440-43-9	7440-47-3	7440-50-8	7439-92-1	7439-97-6	7782-49-2	7440-22-4	7440-66-6	100-41-4	108-88-3	79-01-6	1330-20-7	120-12-7	56-55-3	50-32-8	205-99-2	191-24-2	207-08-9	218-01-9	206-44-0	193-39-5	85-01-8	129-00-0
GP-6 S-1	(1.5' - 2.5')	01/07/22	**7,800**	**98,000**	**1,200**	**20,000**	**82,000**	**110,000**	**110**	**620**	**130**	**140,000**	<50	<50	<50	<150	<330	**750**	**680**	**1,100**	**530**	**400**	**730**	**1,400**	**530**	**690**	**1,400**
GP-6 S-2	(4' - 5')	01/07/22	**9,600**	**110,000**	**790**	**16,000**	**45,000**	**310,000**	**240**	**860**	**160**	**230,000**	<50	<50	<50	<150	**430**	**1,300**	**1,300**	**1,800**	**890**	**640**	**1,400**	**2,600**	**870**	**2,200**	**2,800**
GP-10 S-1	(1' - 2')	01/07/22	**12,000**	**2,200,000**	**75,000**	**270,000**	<1,000	**1,800,000**	**3,300**	**1,400**	**8,000**	<1,000	**70**	**86**	**360**	**290**	<330	**560**	**510**	**980**	**480**	<330	**630**	**820**	**470**	**530**	**850**
GP-10 S-2	(3' - 4')	01/07/22	**4,100**	**470,000**	**850**	**11,000**	**28,000**	**580,000**	**120**	**1,000**	<100	**540,000**	<50	<50	<50	<150	<330	<330	<330	<330	**360**	<330	<330	<330	<330	<330	<330
PART 201 GENERIC RESIDENTIAL CLEANUP CRITERIA (GRCC)		SWDB	5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		DWP	4,600	1.3E+06	6,000	30,000	5.8E+06	7.0E+05	1,700	4,000	4,500	2.4E+06	1,500	16,000	100	5,600	41,000	NLL	NLL	NLL	NLL	NLL	NLL	7.3E+05	NLL	56,000	4.8E+05
		GSIP	4,600	4.4E+05(G)	3,000(G,X)	3,300	75,000(G)	2.5E+06(G,X)	50 (M); 1.2	400	100 (M); 27	1.7E+05(G	360	5,400	4,000 (X)	980	ID	NLL	NLL	NLL	NLL	NLL	NLL	5,500	NLL	2,100	ID
		SVIIC	NLV	NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV	NLV	87,000	3.3E+05	1,000	6.3E+06	1.0E+09	NLV	NLV	ID	NLV	NLV	ID	1.0E+09	NLV	2.8E+06	1.0E+09
		VSIC	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	7.2E+05	2.8E+06	11,000	4.6E+07	1.4E+09	NLV	NLV	ID	NLV	NLV	ID	7.4E+08	NLV	1.6E+05	6.5E+08
		VSIC 5M	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	1.0E+06	5.1E+06	25,000	6.1E+07	1.4E+09	NLV	NLV	ID	NLV	NLV	ID	7.4E+08	NLV	1.6E+05	6.5E+08
		VSIC 2M	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	2.2E+06	1.2E+07	57,000	1.3E+08	1.4E+09	NLV	NLV	ID	NLV	NLV	ID	7.4E+08	NLV	1.6E+05	6.5E+08
		PSIC	7.2E+05	3.3E+08	1.7E+06	2.6E+05	1.3E+08	1.0E+08	2.0E+07	1.3E+08	6.7E+06	ID	1.0E+10	2.7E+10	1.3E+08	2.9E+11	6.7E+10	ID	1.5E+06	ID	8.0E+08	ID	ID	9.3E+09	ID	6.7E+06	6.7E+09
		DC	7,600	3.7E+07	5.5E+05	2.5E+06	2.0E+07	4.0E+05	1.6E+05	2.6E+06	2.5E+06	1.7E+08	2.2E+07	5.0E+07	1.1E+05	4.1E+08	2.3E+08	20,000	2,000	20,000	2.5E+06	2.0E+05	2.0E+06	4.6E+07	20,000	1.6E+06	2.9E+07
		SSCSL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.4E+05	2.5E+05	5.0E+05	1.5E+05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NONRESIDENTIAL VOLATILIZATION TO INDOOR AIR PATHWAY (VIAP) SCREENING LEVELS			NA	NA	NA	NA	NA	NA	390	NA	NA	NA	340	64,000	4	5,000(J)	2.2E+08	1.1E+07	NA	NA	NA	NA	NA	NA	NA	29,000	4.4E+08

NOTES:

[1] PART 201 CRITERIA EFFECTIVE DATE: JUNE 25, 2018
[2] SAMPLES COLLECTED BY NTH CONSULTANTS PERSONNEL AND ANALYZED BY FIBERTEC ENVIRONMENTAL SERVICES OF HOLT, MICHIGAN.
[3] ALL VALUES PRESENTED AS µG/KG - MICROGRAMS PER KILOGRAM (≈ PARTS PER BILLION).
[4] ID - INADEQUATE DATA TO DEVELOP CRITERION
[5] NLV - CHEMICAL IS NOT LIKELY TO VOLATILIZE UNDER MOST CONDITIONS
[6] NA - NOT APPLICABLE
[7] ND - NOT DETECTED ABOVE LABORATORY REPORTED METHOD DETECTION LIMITS
[8] SWDB - STATE-WIDE DEFAULT BACKGROUND
[9] DWP - RESIDENTIAL DRINKING WATER PROTECTION CRITERIA
[10] GSIP - GROUNDWATER / SURFACE WATER INTERFACE PROTECTION CRITERIA.
[11] SVIIC - SOIL VOLATILIZATION TO INDOOR AIR INHALATION CRITERIA.
[12] VSIC - VOLATILE SOIL INHALATION CRITERIA (AMBIENT AIR; INFINITE SOURCE).
[13] VSIC 5M - FINITE VSIC FOR 5 METER SOURCE THICKNESS
[14] VSIC 2M - FINITE VSIC FOR 2 METER SOURCE THICKNESS
[15] PSIC - PARTICULATE SOIL INHALATION CRITERIA
[16] DC - DIRECT CONTACT CRITERIA
[17] SSCSL - SOIL SATURATION CONCENTRATION SCREENING LEVELS
[18] G - AQUATIC TOXICITY IS PROPORTIONAL TO WATER HARDNESS AND/OR pH OF THE RECEIVING SURFACE WATER; THESE GSI VALUES HAVE BEEN CALCULATED BASED ON DEFAULT WATER HARDNESS OF 150 PPM AS A REASONABLE ESTIMATE FOR MOST SURFACE WATER BODIES IN MICHIGAN.
[19] X - THE GSI CRITERION LISTED MAY NOT BE PROTECTIVE FOR SURFACE WATER THAT IS USED AS A DRINKING WATER SOURCE. FOR SOIL THAT MAY LEACH AND RESULT IN A IN CLOSE GROUNDWATER DISCHARGE TO THE GREAT LAKES AND THEIR CONNECTING WATERS OR DISCHARGE IN CLOSE PROXIMITY TO A WATER SUPPLY INTAKE IN INLAND SURFACE WATERS, THE GENERIC GSI CRITERION WOULD BE THE RESIDENTIAL DWP LISTED IN THE TABLE.
[20] - REPORTED CONCENTRATION EXCEEDS ONE OR MORE APPLICABLE PART 201 CRITERIA
[21] - REPORTED CONCENTRATION EXCEEDS VAPOR INTRUSION SCREENING LEVELS

APPENDIX B

Laboratory Data

Fibertec
environmental
services

Friday, January 14, 2022

Fibertec Project Number:	A06294
Project Identification:	61-200414-02C /61-200414-02C
Submittal Date:	01/10/2022

Mr. Cliff Andrews
NTH Consultants, Ltd. - Northville
41780 Six Mile Road
Suite 200
Northville, MI 48168-3459

Dear Mr. Andrews,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,



By Jacob Sutherlund at 1:43 PM, Jan 14, 2022

For Daryl P. Strandbergh
Laboratory Director

Enclosures

Client Identification:	**NTH Consultants, Ltd. - Northville**	Sample Description:	**GP-10 S-1 (1-2)**	Chain of Custody:	**204402**
Client Project Name:	**61-200414-02C**	Sample No:	**S-1**	Collect Date:	**01/07/22**
Client Project No:	**61-200414-02C**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:30**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: A06294-001** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: GP-10 S-1 (1-2)**

							Preparation		Analysis		
	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡	1. Percent Moisture (Water Content)	**20**		%	1	1.0	01/10/22	MC220110	01/11/22	MC220110	LET

Michigan 10 Elements by ICP/MS **Aliquot ID: A06294-001** **Matrix: Soil/Solid**
Method: EPA 0200.2/EPA 6020A **Description: GP-10 S-1 (1-2)**

							Preparation		Analysis		
	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
	1. Arsenic	**12000**		µg/kg	100	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
	2. Barium	**2200000**		µg/kg	10000	20000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
	3. Cadmium	**75000**		µg/kg	50	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
	4. Chromium	**270000**		µg/kg	4000	20000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
	5. Copper	U		µg/kg	1000	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
	6. Lead	**1800000**		µg/kg	4000	20000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
	7. Selenium	**1400**		µg/kg	200	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
	8. Silver	**8000**		µg/kg	100	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
	9. Zinc	U		µg/kg	1000	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA

Mercury by CVAAS **Aliquot ID: A06294-001** **Matrix: Soil/Solid**
Method: EPA 7471B **Description: GP-10 S-1 (1-2)**

							Preparation		Analysis		
	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
	1. Mercury	**3300**		µg/kg	92	40	01/13/22	PM22A12A	01/13/22	M722A13A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A06294-001A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: GP-10 S-1 (1-2)**

							Preparation		Analysis		
	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
	1. Acetone	U		µg/kg	1000	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
‡	2. Acrylonitrile	U		µg/kg	150	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
	3. Benzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
	4. Bromobenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
	5. Bromochloromethane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
	6. Bromodichloromethane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
	7. Bromoform	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
	8. Bromomethane	U		µg/kg	200	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
	9. 2-Butanone	U		µg/kg	750	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART

Client Identification:	**NTH Consultants, Ltd. - Northville**	Sample Description:	**GP-10 S-1 (1-2)**	Chain of Custody:	**204402**
Client Project Name:	**61-200414-02C**	Sample No:	**S-1**	Collect Date:	**01/07/22**
Client Project No:	**61-200414-02C**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:30**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A06294-001A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: GP-10 S-1 (1-2)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
10. n-Butylbenzene	U		µg/kg	76	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
11. sec-Butylbenzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
12. tert-Butylbenzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
13. Carbon Disulfide	U		µg/kg	250	1.0	01/11/22	VP22A11A	01/11/22 14:36	VP22A11A	ART
14. Carbon Tetrachloride	U		µg/kg	76	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
15. Chlorobenzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
16. Chloroethane	U		µg/kg	380	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
17. Chloroform	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
18. Chloromethane	U		µg/kg	250	1.0	01/11/22	VP22A11A	01/11/22 14:36	VP22A11A	ART
19. 2-Chlorotoluene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
21. Dibromochloromethane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
22. Dibromomethane	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
28. 1,2-Dichloroethane	U		µg/kg	76	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
32. 1,2-Dichloropropane	U		µg/kg	76	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
33. cis-1,3-Dichloropropene	U		µg/kg	76	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
35. Ethylbenzene	**70**		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
36. Ethylene Dibromide	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
37. 2-Hexanone	U		µg/kg	2500	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
38. Isopropylbenzene	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
39. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
40. Methylene Chloride	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
‡ 41. 2-Methylnaphthalene	U		µg/kg	330	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
42. MTBE	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
43. Naphthalene	U		µg/kg	330	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
44. n-Propylbenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
45. Styrene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART

Client Identification:	**NTH Consultants, Ltd. - Northville**	Sample Description:	**GP-10 S-1 (1-2)**	Chain of Custody:	**204402**
Client Project Name:	**61-200414-02C**	Sample No:	**S-1**	Collect Date:	**01/07/22**
Client Project No:	**61-200414-02C**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:30**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A06294-001A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: GP-10 S-1 (1-2)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	76	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
48. Tetrachloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
49. Toluene	**86**		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
50. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
51. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
52. 1,1,2-Trichloroethane	U		µg/kg	76	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
53. Trichloroethene	**360**		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
54. Trichlorofluoromethane	U	V+	µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
55. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
‡ 56. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
57. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
58. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
59. Vinyl Chloride	U		µg/kg	40	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
60. m&p-Xylene	**200**		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
61. o-Xylene	**89**		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART
‡ 62. Xylenes	**290**		µg/kg	150	1.0	01/10/22	VP22A10A	01/10/22 14:02	VP22A10A	ART

Polynuclear Aromatic Hydrocarbons (PNAs) **Aliquot ID: A06294-001** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8270E **Description: GP-10 S-1 (1-2)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 14:18	S622A13B	ALS
2. Acenaphthylene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 14:18	S622A13B	ALS
3. Anthracene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 14:18	S622A13B	ALS
4. Benzo(a)anthracene (SIM)	**560**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 14:18	S622A13B	ALS
5. Benzo(a)pyrene (SIM)	**510**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 14:18	S622A13B	ALS
6. Benzo(b)fluoranthene (SIM)	**980**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 14:18	S622A13B	ALS
7. Benzo(ghi)perylene (SIM)	**480**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 14:18	S622A13B	ALS
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 14:18	S622A13B	ALS
9. Chrysene (SIM)	**630**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 14:18	S622A13B	ALS
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 14:18	S622A13B	ALS
11. Fluoranthene (SIM)	**820**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 14:18	S622A13B	ALS
12. Fluorene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 14:18	S622A13B	ALS
13. Indeno(1,2,3-cd)pyrene (SIM)	**470**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 14:18	S622A13B	ALS
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 14:18	S622A13B	ALS
15. Naphthalene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 14:18	S622A13B	ALS

Client Identification:	**NTH Consultants, Ltd. - Northville**	Sample Description:	**GP-10 S-1 (1-2)**	Chain of Custody:	**204402**
Client Project Name:	**61-200414-02C**	Sample No:	**S-1**	Collect Date:	**01/07/22**
Client Project No:	**61-200414-02C**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:30**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Polynuclear Aromatic Hydrocarbons (PNAs) **Aliquot ID: A06294-001** **Matrix: Soil/Solid**

Method: EPA 3546/EPA 8270E **Description: GP-10 S-1 (1-2)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
16. Phenanthrene (SIM)	**530**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 14:18	S622A13B	ALS
17. Pyrene (SIM)	**850**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 14:18	S622A13B	ALS

Client Identification:	**NTH Consultants, Ltd. - Northville**	Sample Description:	**GP-10 S-2 (3-4)**	Chain of Custody:	**204402**
Client Project Name:	**61-200414-02C**	Sample No:	**S-2**	Collect Date:	**01/07/22**
Client Project No:	**61-200414-02C**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:35**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: A06294-002** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: GP-10 S-2 (3-4)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**26**		%	1	1.0	01/10/22	MC220110	01/11/22	MC220110	LET

Michigan 10 Elements by ICP/MS **Aliquot ID: A06294-002** **Matrix: Soil/Solid**
Method: EPA 0200.2/EPA 6020A **Description: GP-10 S-2 (3-4)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Arsenic	**4100**		µg/kg	100	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
2. Barium	**470000**		µg/kg	1000	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
3. Cadmium	**850**		µg/kg	50	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
4. Chromium	**11000**		µg/kg	500	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
5. Copper	**28000**		µg/kg	1000	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
6. Lead	**580000**		µg/kg	1000	5000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
7. Selenium	**1000**		µg/kg	200	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
8. Silver	U		µg/kg	100	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
9. Zinc	**540000**		µg/kg	2500	5000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA

Mercury by CVAAS **Aliquot ID: A06294-002** **Matrix: Soil/Solid**
Method: EPA 7471B **Description: GP-10 S-2 (3-4)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Mercury	**120**		µg/kg	50	10	01/12/22	PM22A12A	01/13/22	M722A13A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A06294-002A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: GP-10 S-2 (3-4)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
‡ 2. Acrylonitrile	U		µg/kg	170	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
3. Benzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
4. Bromobenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
5. Bromochloromethane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
6. Bromodichloromethane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
7. Bromoform	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
8. Bromomethane	U		µg/kg	200	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
9. 2-Butanone	U		µg/kg	750	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART

Client Identification:	**NTH Consultants, Ltd. - Northville**	Sample Description:	**GP-10 S-2 (3-4)**	Chain of Custody:	**204402**
Client Project Name:	**61-200414-02C**	Sample No:	**S-2**	Collect Date:	**01/07/22**
Client Project No:	**61-200414-02C**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:35**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A06294-002A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: GP-10 S-2 (3-4)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
10. n-Butylbenzene	U		µg/kg	85	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
11. sec-Butylbenzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
12. tert-Butylbenzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
13. Carbon Disulfide	U		µg/kg	250	1.0	01/11/22	VP22A11A	01/11/22 15:03	VP22A11A	ART
14. Carbon Tetrachloride	U		µg/kg	85	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
15. Chlorobenzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
16. Chloroethane	U		µg/kg	430	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
17. Chloroform	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
18. Chloromethane	U		µg/kg	250	1.0	01/11/22	VP22A11A	01/11/22 15:03	VP22A11A	ART
19. 2-Chlorotoluene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
21. Dibromochloromethane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
22. Dibromomethane	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
28. 1,2-Dichloroethane	U		µg/kg	85	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
32. 1,2-Dichloropropane	U		µg/kg	85	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
33. cis-1,3-Dichloropropene	U		µg/kg	85	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
35. Ethylbenzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
36. Ethylene Dibromide	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
37. 2-Hexanone	U		µg/kg	2500	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
38. Isopropylbenzene	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
39. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
40. Methylene Chloride	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
‡ 41. 2-Methylnaphthalene	U		µg/kg	330	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
42. MTBE	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
43. Naphthalene	U		µg/kg	330	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
44. n-Propylbenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
45. Styrene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART

Client Identification:	**NTH Consultants, Ltd. - Northville**	Sample Description:	**GP-10 S-2 (3-4)**	Chain of Custody:	**204402**
Client Project Name:	**61-200414-02C**	Sample No:	**S-2**	Collect Date:	**01/07/22**
Client Project No:	**61-200414-02C**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:35**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A06294-002A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: GP-10 S-2 (3-4)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	85	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
48. Tetrachloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
49. Toluene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
50. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
51. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
52. 1,1,2-Trichloroethane	U		µg/kg	85	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
53. Trichloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
54. Trichlorofluoromethane	U	V+	µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
55. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
‡ 56. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
57. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
58. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
59. Vinyl Chloride	U		µg/kg	43	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
60. m&p-Xylene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
61. o-Xylene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART
‡ 62. Xylenes	U		µg/kg	150	1.0	01/10/22	VP22A10A	01/10/22 14:28	VP22A10A	ART

Polynuclear Aromatic Hydrocarbons (PNAs) **Aliquot ID: A06294-002** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8270E **Description: GP-10 S-2 (3-4)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:08	S622A13B	ALS
2. Acenaphthylene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:08	S622A13B	ALS
3. Anthracene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:08	S622A13B	ALS
4. Benzo(a)anthracene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:08	S622A13B	ALS
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:08	S622A13B	ALS
6. Benzo(b)fluoranthene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:08	S622A13B	ALS
7. Benzo(ghi)perylene (SIM)	**360**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:08	S622A13B	ALS
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:08	S622A13B	ALS
9. Chrysene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:08	S622A13B	ALS
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:08	S622A13B	ALS
11. Fluoranthene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:08	S622A13B	ALS
12. Fluorene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:08	S622A13B	ALS
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:08	S622A13B	ALS
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:08	S622A13B	ALS
15. Naphthalene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:08	S622A13B	ALS

Client Identification:	**NTH Consultants, Ltd. - Northville**	Sample Description:	**GP-10 S-2 (3-4)**	Chain of Custody:	**204402**
Client Project Name:	**61-200414-02C**	Sample No:	**S-2**	Collect Date:	**01/07/22**
Client Project No:	**61-200414-02C**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:35**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Polynuclear Aromatic Hydrocarbons (PNAs) **Aliquot ID: A06294-002** **Matrix: Soil/Solid**

Method: EPA 3546/EPA 8270E **Description: GP-10 S-2 (3-4)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
16. Phenanthrene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:08	S622A13B	ALS
17. Pyrene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:08	S622A13B	ALS

Client Identification:	**NTH Consultants, Ltd. - Northville**	Sample Description:	**GP-6 S-1 (1.5-2.5)**	Chain of Custody:	**204402**
Client Project Name:	**61-200414-02C**	Sample No:	**S-1**	Collect Date:	**01/07/22**
Client Project No:	**61-200414-02C**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: A06294-003** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: GP-6 S-1 (1.5-2.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**14**		%	1	1.0	01/10/22	MC220110	01/11/22	MC220110	LET

Michigan 10 Elements by ICP/MS **Aliquot ID: A06294-003** **Matrix: Soil/Solid**
Method: EPA 0200.2/EPA 6020A **Description: GP-6 S-1 (1.5-2.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**7800**		µg/kg	100	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
2. Barium	**98000**		µg/kg	1000	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
3. Cadmium	**1200**		µg/kg	50	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
4. Chromium	**20000**		µg/kg	500	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
5. Copper	**82000**		µg/kg	1000	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
6. Lead	**110000**		µg/kg	1000	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
7. Selenium	**620**		µg/kg	200	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
8. Silver	**130**		µg/kg	100	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
9. Zinc	**140000**		µg/kg	1000	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA

Mercury by CVAAS **Aliquot ID: A06294-003** **Matrix: Soil/Solid**
Method: EPA 7471B **Description: GP-6 S-1 (1.5-2.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	**110**		µg/kg	50	10	01/12/22	PM22A12A	01/13/22	M722A13A	JLH

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A06294-003A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: GP-6 S-1 (1.5-2.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
‡ 2. Acrylonitrile	U		µg/kg	130	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
3. Benzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
4. Bromobenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
5. Bromochloromethane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
6. Bromodichloromethane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
7. Bromoform	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
8. Bromomethane	U		µg/kg	200	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
9. 2-Butanone	U		µg/kg	750	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART

Client Identification:	**NTH Consultants, Ltd. - Northville**	Sample Description:	**GP-6 S-1 (1.5-2.5)**	Chain of Custody:	**204402**
Client Project Name:	**61-200414-02C**	Sample No:	**S-1**	Collect Date:	**01/07/22**
Client Project No:	**61-200414-02C**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A06294-003A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: GP-6 S-1 (1.5-2.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
10. n-Butylbenzene	U		µg/kg	65	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
11. sec-Butylbenzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
12. tert-Butylbenzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
13. Carbon Disulfide	U		µg/kg	250	1.0	01/11/22	VP22A11A	01/11/22 15:30	VP22A11A	ART
14. Carbon Tetrachloride	U		µg/kg	65	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
15. Chlorobenzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
16. Chloroethane	U		µg/kg	320	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
17. Chloroform	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
18. Chloromethane	U		µg/kg	250	1.0	01/11/22	VP22A11A	01/11/22 15:30	VP22A11A	ART
19. 2-Chlorotoluene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
21. Dibromochloromethane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
22. Dibromomethane	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
28. 1,2-Dichloroethane	U		µg/kg	65	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
32. 1,2-Dichloropropane	U		µg/kg	65	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
33. cis-1,3-Dichloropropene	U		µg/kg	65	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
35. Ethylbenzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
36. Ethylene Dibromide	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
37. 2-Hexanone	U		µg/kg	2500	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
38. Isopropylbenzene	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
39. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
40. Methylene Chloride	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
‡ 41. 2-Methylnaphthalene	U		µg/kg	330	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
42. MTBE	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
43. Naphthalene	U		µg/kg	330	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
44. n-Propylbenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
45. Styrene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART

Client Identification:	**NTH Consultants, Ltd. - Northville**	Sample Description:	**GP-6 S-1 (1.5-2.5)**	Chain of Custody:	**204402**
Client Project Name:	**61-200414-02C**	Sample No:	**S-1**	Collect Date:	**01/07/22**
Client Project No:	**61-200414-02C**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A06294-003A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: GP-6 S-1 (1.5-2.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	65	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
48. Tetrachloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
49. Toluene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
50. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
51. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
52. 1,1,2-Trichloroethane	U		µg/kg	65	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
53. Trichloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
54. Trichlorofluoromethane	U	V+	µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
55. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
‡ 56. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
57. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
58. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
59. Vinyl Chloride	U		µg/kg	40	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
60. m&p-Xylene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
61. o-Xylene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART
‡ 62. Xylenes	U		µg/kg	150	1.0	01/10/22	VP22A10A	01/10/22 14:55	VP22A10A	ART

Polynuclear Aromatic Hydrocarbons (PNAs) **Aliquot ID: A06294-003** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8270E **Description: GP-6 S-1 (1.5-2.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:36	S622A13B	ALS
2. Acenaphthylene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:36	S622A13B	ALS
3. Anthracene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:36	S622A13B	ALS
4. Benzo(a)anthracene (SIM)	**750**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:36	S622A13B	ALS
5. Benzo(a)pyrene (SIM)	**680**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:36	S622A13B	ALS
6. Benzo(b)fluoranthene (SIM)	**1100**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:36	S622A13B	ALS
7. Benzo(ghi)perylene (SIM)	**530**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:36	S622A13B	ALS
8. Benzo(k)fluoranthene (SIM)	**400**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:36	S622A13B	ALS
9. Chrysene (SIM)	**730**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:36	S622A13B	ALS
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:36	S622A13B	ALS
11. Fluoranthene (SIM)	**1400**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:36	S622A13B	ALS
12. Fluorene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:36	S622A13B	ALS
13. Indeno(1,2,3-cd)pyrene (SIM)	**530**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:36	S622A13B	ALS
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:36	S622A13B	ALS
15. Naphthalene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:36	S622A13B	ALS

Client Identification:	**NTH Consultants, Ltd. - Northville**	Sample Description:	**GP-6 S-1 (1.5-2.5)**	Chain of Custody:	**204402**
Client Project Name:	**61-200414-02C**	Sample No:	**S-1**	Collect Date:	**01/07/22**
Client Project No:	**61-200414-02C**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Polynuclear Aromatic Hydrocarbons (PNAs) **Aliquot ID: A06294-003** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8270E **Description: GP-6 S-1 (1.5-2.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
16. Phenanthrene (SIM)	**690**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:36	S622A13B	ALS
17. Pyrene (SIM)	**1400**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 16:36	S622A13B	ALS

Client Identification:	**NTH Consultants, Ltd. - Northville**	Sample Description:	**GP-6 S-2 (4-5)**	Chain of Custody:	**204402**
Client Project Name:	**61-200414-02C**	Sample No:	**S-2**	Collect Date:	**01/07/22**
Client Project No:	**61-200414-02C**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:05**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: A06294-004** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: GP-6 S-2 (4-5)**

							Preparation		Analysis		
	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡	1. Percent Moisture (Water Content)	**14**		%	1	1.0	01/10/22	MC220110	01/11/22	MC220110	LET

Michigan 10 Elements by ICP/MS **Aliquot ID: A06294-004** **Matrix: Soil/Solid**
Method: EPA 0200.2/EPA 6020A **Description: GP-6 S-2 (4-5)**

							Preparation		Analysis		
	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
	1. Arsenic	**9600**		µg/kg	100	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
	2. Barium	**110000**		µg/kg	1000	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
	3. Cadmium	**790**		µg/kg	50	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
	4. Chromium	**16000**		µg/kg	500	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
	5. Copper	**45000**		µg/kg	1000	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
	6. Lead	**310000**		µg/kg	1000	2000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
	7. Selenium	**860**		µg/kg	200	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
	8. Silver	**160**		µg/kg	100	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA
	9. Zinc	**230000**		µg/kg	1000	1000	01/13/22	PT22A13A	01/13/22	T422A13A	CJA

Mercury by CVAAS **Aliquot ID: A06294-004** **Matrix: Soil/Solid**
Method: EPA 7471B **Description: GP-6 S-2 (4-5)**

							Preparation		Analysis		
	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
	1. Mercury	**240**		µg/kg	50	10	01/12/22	PM22A12A	01/13/22	M722A13A	JLH

Polychlorinated Biphenyls (PCBs) **Aliquot ID: A06294-004** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8082A **Description: GP-6 S-2 (4-5)**

							Preparation		Analysis		
	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
	1. Aroclor-1016	U		µg/kg	100	5.0	01/11/22	PS22A11F	01/12/22 13:10	SF22A12A	JES
	2. Aroclor-1221	U		µg/kg	100	5.0	01/11/22	PS22A11F	01/12/22 13:10	SF22A12A	JES
	3. Aroclor-1232	U		µg/kg	100	5.0	01/11/22	PS22A11F	01/12/22 13:10	SF22A12A	JES
	4. Aroclor-1242	U		µg/kg	100	5.0	01/11/22	PS22A11F	01/12/22 13:10	SF22A12A	JES
	5. Aroclor-1248	U		µg/kg	100	5.0	01/11/22	PS22A11F	01/12/22 13:10	SF22A12A	JES
	6. Aroclor-1254	U		µg/kg	100	5.0	01/11/22	PS22A11F	01/12/22 13:10	SF22A12A	JES
	7. Aroclor-1260	U		µg/kg	100	5.0	01/11/22	PS22A11F	01/12/22 13:10	SF22A12A	JES
‡	8. Aroclor-1262	U		µg/kg	100	5.0	01/11/22	PS22A11F	01/12/22 13:10	SF22A12A	JES
‡	9. Aroclor-1268	U		µg/kg	100	5.0	01/11/22	PS22A11F	01/12/22 13:10	SF22A12A	JES

Client Identification:	**NTH Consultants, Ltd. - Northville**	Sample Description:	**GP-6 S-2 (4-5)**	Chain of Custody:	**204402**
Client Project Name:	**61-200414-02C**	Sample No:	**S-2**	Collect Date:	**01/07/22**
Client Project No:	**61-200414-02C**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:05**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A06294-004A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: GP-6 S-2 (4-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
‡ 2. Acrylonitrile	U		µg/kg	130	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
3. Benzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
4. Bromobenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
5. Bromochloromethane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
6. Bromodichloromethane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
7. Bromoform	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
8. Bromomethane	U		µg/kg	200	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
9. 2-Butanone	U		µg/kg	750	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
10. n-Butylbenzene	U		µg/kg	67	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
11. sec-Butylbenzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
12. tert-Butylbenzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
13. Carbon Disulfide	U		µg/kg	250	1.0	01/11/22	VP22A11A	01/11/22 15:56	VP22A11A	ART
14. Carbon Tetrachloride	U		µg/kg	67	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
15. Chlorobenzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
16. Chloroethane	U		µg/kg	340	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
17. Chloroform	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
18. Chloromethane	U		µg/kg	250	1.0	01/11/22	VP22A11A	01/11/22 15:56	VP22A11A	ART
19. 2-Chlorotoluene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
21. Dibromochloromethane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
22. Dibromomethane	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
28. 1,2-Dichloroethane	U		µg/kg	67	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
32. 1,2-Dichloropropane	U		µg/kg	67	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
33. cis-1,3-Dichloropropene	U		µg/kg	67	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
35. Ethylbenzene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
36. Ethylene Dibromide	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
37. 2-Hexanone	U		µg/kg	2500	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART

Client Identification:	**NTH Consultants, Ltd. - Northville**	Sample Description:	**GP-6 S-2 (4-5)**	Chain of Custody:	**204402**
Client Project Name:	**61-200414-02C**	Sample No:	**S-2**	Collect Date:	**01/07/22**
Client Project No:	**61-200414-02C**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:05**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A06294-004A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: GP-6 S-2 (4-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
38. Isopropylbenzene	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
39. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
40. Methylene Chloride	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
‡ 41. 2-Methylnaphthalene	U		µg/kg	330	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
42. MTBE	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
43. Naphthalene	U		µg/kg	330	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
44. n-Propylbenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
45. Styrene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	67	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
48. Tetrachloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
49. Toluene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
50. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
51. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
52. 1,1,2-Trichloroethane	U		µg/kg	67	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
53. Trichloroethene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
54. Trichlorofluoromethane	U	V+	µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
55. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
‡ 56. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
57. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
58. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
59. Vinyl Chloride	U		µg/kg	40	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
60. m&p-Xylene	U		µg/kg	100	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
61. o-Xylene	U		µg/kg	50	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART
‡ 62. Xylenes	U		µg/kg	150	1.0	01/10/22	VP22A10A	01/10/22 15:22	VP22A10A	ART

Polynuclear Aromatic Hydrocarbons (PNAs) **Aliquot ID: A06294-004** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8270E **Description: GP-6 S-2 (4-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 17:19	S622A13B	ALS
2. Acenaphthylene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 17:19	S622A13B	ALS
3. Anthracene (SIM)	**430**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 17:19	S622A13B	ALS
4. Benzo(a)anthracene (SIM)	**1300**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 17:19	S622A13B	ALS
5. Benzo(a)pyrene (SIM)	**1300**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 17:19	S622A13B	ALS
6. Benzo(b)fluoranthene (SIM)	**1800**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 17:19	S622A13B	ALS

Client Identification:	**NTH Consultants, Ltd. - Northville**	Sample Description:	**GP-6 S-2 (4-5)**	Chain of Custody:	**204402**
Client Project Name:	**61-200414-02C**	Sample No:	**S-2**	Collect Date:	**01/07/22**
Client Project No:	**61-200414-02C**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:05**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Polynuclear Aromatic Hydrocarbons (PNAs) **Aliquot ID: A06294-004** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8270E **Description: GP-6 S-2 (4-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
7. Benzo(ghi)perylene (SIM)	**890**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 17:19	S622A13B	ALS
8. Benzo(k)fluoranthene (SIM)	**640**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 17:19	S622A13B	ALS
9. Chrysene (SIM)	**1400**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 17:19	S622A13B	ALS
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 17:19	S622A13B	ALS
11. Fluoranthene (SIM)	**2600**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 17:19	S622A13B	ALS
12. Fluorene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 17:19	S622A13B	ALS
13. Indeno(1,2,3-cd)pyrene (SIM)	**870**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 17:19	S622A13B	ALS
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 17:19	S622A13B	ALS
15. Naphthalene (SIM)	U		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 17:19	S622A13B	ALS
16. Phenanthrene (SIM)	**2200**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 17:19	S622A13B	ALS
17. Pyrene (SIM)	**2800**		µg/kg	330	10	01/12/22	PS22A11F	01/13/22 17:19	S622A13B	ALS

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QC limits

Exception Summary:

V+ : Recovery in the associated continuing calibration verification sample (CCV) exceeds the upper control limit. Results may be biased high.

Analysis Locations:

All analyses performed in Holt.



Accreditation Number(s):

T104704518-19-8 (TX)

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
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8660 S. Mackinaw Trail
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Geoprobe
11766 E. Grand River Rd.
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Revised COC

Chain of Custody # 204402
PAGE 1 of 1

Client Name: NTH Consultants
Contact Person: Cliff Andrews
Project Name/ Number: 61-200414-02C
Email distribution list: CAndrews@NTHconsultants.com
Quote#
Purchase Order#

Matrix Code: S Soil; A Air; O Oil; P Wipe; GW Ground Water; SW Surface Water; WW Waste Water; X Other: Specify

Deliverables: Level 2; Level 3; Level 4; EDD

Date	Time	Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	VOCs	PNAs	Hvl 10 metals	PCBs							HOLD SAMPLE	Remarks:
1/7/22	9:30	S-1	GP-10 S-1 (1-2)	S	2	X	X	X									
	9:35	S-2	GP-10 S-2 (3-4)	S	2	X	X	X									
	10:00	S-1	GP-6 S-1 (1.5-2.5)	S	2	X	X	X									
	10:05	S-2	GP-6 S-2 (4-5)	S	3	X	X	X	X								

Comments:

Sample picks received via email 1/10/22 @ 8:37 am - RL

Sampled/Relinquished By:	Date/ Time 1/7/22 10:15	Received By:
Relinquished By:	Date/ Time	Received By:
Relinquished By:	Date/ Time	Received By Laboratory:

Turnground Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY

____1 bus. day ____2 bus. days ____3 bus. days ____4 bus. days

X 5-7 bus. days (standard) Other (specify time/date requirement): _____

LAB USE ONLY

Fibertec project number: A06294

Temperature upon receipt at Lab: 1.1°C

Please see back for terms and conditions

Fibertec environmental services

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Geoprobe

11766 E. Grand River Rd.
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 204402
PAGE 1 of 1

Client Name: NTH Consultants
Contact Person: Clifa Andrews
Project Name/ Number: 61-200414-02C
Email distribution list: CAndrews@NTHConsultants.com
Quote#
Purchase Order#

Date	Time	Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	VOCs	PNAs	MI 10 Metals	PCBs	HOLD SAMPLE
1/7/22	9:30	S-1	GP-10 S-1 (1-2)	S	2					
	9:35	S-2	GP-10 S-2 (3-4)	S	2					
	10:00	S-1	GP-6 S-1 (1.5-2.5)	S	2					
	10:05	S-2	GP-6 S-2 (4-5)	S	3					

Matrix Code: S Soil; A Air; O Oil; P Wipe; GW Ground Water; SW Surface Water; WW Waste Water; X Other: Specify

Deliverables: Level 2; Level 3; Level 4; EDD

Remarks:

Received By Lab
JAN 07 2022
Initials: SS

Comments:

	Date/ Time		
Sampled/Relinquished By:	1/7/22 10:15	Received By:	
Relinquished By:	1/7/22	Received By:	1/7/22 2:00
Relinquished By:	1/7/22 15:08	Received By Laboratory:	

Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY

_____1 bus. day _____2 bus. days _____3 bus. days _____4 bus. days

X 5-7 bus. days (standard) Other (specify time/date requirement): _____

LAB USE ONLY

Fibertec project number: A06294
Temperature upon receipt at Lab: 1.1°C

Received On Ice

Please see back for terms and conditions

PM22A12A: Method Blank (MB) — EPA 7471B

Run Time: PM22A12A.MB 01/13/2022 12:41 [M722A13A]

Analyte	MB Result	MB Qualifier	MB RDL
	µg/kg		µg/kg
Mercury	U		50

PM22A12A: Laboratory Control Sample (LCS) — EPA 7471B

Run Time: PM22A12A.LCS: 01/13/2022 12:42 [M722A13A]

Analyte	LCS Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	µg/kg	µg/kg	%	%	
Mercury	200	199	100	85-115	

PS22A11F: Method Blank (MB) — EPA 8082A

Run Time: PS22A11F.MB 01/12/2022 12:25 [SF22A12A]

Analyte	MB Result	MB Qualifier	MB RDL
	µg/kg		µg/kg
Aroclor-1016	U		100
Aroclor-1260	U		100
Decachlorobiphenyl-PCB(S)	*93*		*40-143*
2,4,5,6-Tetrachloro-m-xylene-PCB(S)	*83*		*42-133*

PS22A11F: Method Blank (MB) — EPA 8270E

Run Time: PS22A11F.MB 01/13/2022 11:04 [S622A13B]

Analyte	MB Result	MB Qualifier	MB RDL
	µg/kg		µg/kg
Acenaphthene (SIM)	U		330
Acenaphthylene (SIM)	U		330
Anthracene (SIM)	U		330
Benzo(a)anthracene (SIM)	U		330
Benzo(a)pyrene (SIM)	U		330
Benzo(b)fluoranthene (SIM)	U		330
Benzo(ghi)perylene (SIM)	U		330
Benzo(k)fluoranthene (SIM)	U		330
Chrysene (SIM)	U		330
Dibenzo(a,h)anthracene (SIM)	U		330
Fluoranthene (SIM)	U		330
Fluorene (SIM)	U		330
Indeno(1,2,3-cd)pyrene (SIM)	U		330
2-Methylnaphthalene (SIM)	U		330
Naphthalene (SIM)	U		330
Phenanthrene (SIM)	U		330
Pyrene (SIM)	U		330
2-Fluorobiphenyl(S)	*63*		*49-115*
1-Fluoronaphthalene(S)	*63*		*46-114*
4-Terphenyl-d14(S)	*78*		*48-117*

PS22A11F: Laboratory Control Sample (LCS) — EPA 8082A

Run Time: PS22A11F.LCS: 01/12/2022 12:36 [SF22A12A]

Analyte	LCS Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	µg/kg	µg/kg	%	%	
Aroclor-1016	667	541	81	60-120	
Aroclor-1260	667	479	72	60-120	
Decachlorobiphenyl-PCB(S)			*99*	*40-143*	
2,4,5,6-Tetrachloro-m-xylene-PCB(S)			*70*	*42-133*	

PS22A11F: Laboratory Control Sample (LCS) — EPA 8270E

Run Time: PS22A11F.LCS: 01/13/2022 11:59 [S622A13B]

Analyte	LCS Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	µg/kg	µg/kg	%	%	
Acenaphthene (SIM)	5330	3000	56	35-93	
Acenaphthylene (SIM)	5330	3080	58	33-100	
Anthracene (SIM)	5330	2900	54	43-91	
Benzo(a)anthracene (SIM)	5330	3250	61	47-102	
Benzo(a)pyrene (SIM)	5330	3810	72	45-117	
Benzo(b)fluoranthene (SIM)	5330	3910	73	48-121	
Benzo(ghi)perylene (SIM)	5330	3230	61	48-111	
Benzo(k)fluoranthene (SIM)	5330	3780	71	52-117	
Chrysene (SIM)	5330	3410	64	51-108	
Dibenzo(a,h)anthracene (SIM)	5330	3250	61	51-113	
Fluoranthene (SIM)	5330	3040	57	50-101	
Fluorene (SIM)	5330	3210	60	40-97	
Indeno(1,2,3-cd)pyrene (SIM)	5330	3570	67	54-122	
2-Methylnaphthalene (SIM)	5330	3010	56	30-95	
Naphthalene (SIM)	5330	2910	55	27-87	
Phenanthrene (SIM)	5330	3150	59	41-92	
Pyrene (SIM)	5330	3380	63	46-109	
2-Fluorobiphenyl(S)			*57*	*49-115*	
1-Fluoronaphthalene(S)			*56*	*46-114*	
4-Terphenyl-d14(S)			*57*	*48-117*	

PT22A13A: Method Blank (MB) — EPA 6020A

Run Time: PT22A13A.MB 01/13/2022 12:49 [T422A13A]

Analyte	MB Result µg/kg	MB Qualifier	MB RDL µg/kg
Arsenic	U		100
Barium	U		1000
Cadmium	U		50
Chromium	U		500
Copper	U		1000
Lead	U		1000
Selenium	U		200
Silver	U		100
Zinc	U		1000

PT22A13A: Laboratory Control Sample (LCS) — EPA 6020A

Run Time: PT22A13A.LCS: 01/13/2022 12:51 [T422A13A]

Analyte	LCS Spike Amount µg/kg	LCS Result µg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	10000	10100	101	85-115	
Barium	50000	50500	101	85-115	
Cadmium	10000	9870	99	85-115	
Chromium	20000	19400	97	85-115	
Copper	20000	20900	104	85-115	
Lead	20000	19700	99	85-115	
Selenium	10000	9890	99	85-115	
Silver	10000	9780	98	85-115	
Zinc	50000	51600	103	85-115	

VP22A10A: Method Blank (MB)

EPA 8260D

Run Time: VP22A10A.MB 01/10/2022 11:22 [VP22A10A]

Analyte	MB Result	MB Qualifier	MB RDL
	µg/kg		µg/kg
Acetone	U		1000
Acrylonitrile	U		100
Benzene	U		50
Bromobenzene	U		100
Bromochloromethane	U		100
Bromodichloromethane	U		100
Bromoform	U		100
Bromomethane	U		200
2-Butanone	U		750
n-Butylbenzene	U		50
sec-Butylbenzene	U		50
tert-Butylbenzene	U		50
Carbon Tetrachloride	U		50
Chlorobenzene	U		50
Chloroethane	U		250
Chloroform	U		50
2-Chlorotoluene	U		50
1,2-Dibromo-3-chloropropane (SIM)	U		250
Dibromochloromethane	U		100
Dibromomethane	U		250
1,2-Dichlorobenzene	U		100
1,3-Dichlorobenzene	U		100
1,4-Dichlorobenzene	U		100
Dichlorodifluoromethane	U		250
1,1-Dichloroethane	U		50
1,2-Dichloroethane	U		50
1,1-Dichloroethene	U		50
cis-1,2-Dichloroethene	U		50
trans-1,2-Dichloroethene	U		50
1,2-Dichloropropane	U		50
cis-1,3-Dichloropropene	U		50
trans-1,3-Dichloropropene	U		50
Ethylbenzene	U		50

VP22A10A: Method Blank (MB) — EPA 8260D

Run Time: VP22A10A.MB 01/10/2022 11:22 [VP22A10A]

Analyte	MB Result	MB Qualifier	MB RDL
	µg/kg		µg/kg
Ethylene Dibromide	U		50
2-Hexanone	U		2500
Isopropylbenzene	U		250
4-Methyl-2-pentanone	U		2500
Methylene Chloride	U		100
2-Methylnaphthalene	U		330
MTBE	U		250
Naphthalene	U		330
n-Propylbenzene	U		100
Styrene	U		50
1,1,1,2-Tetrachloroethane	U		100
1,1,2,2-Tetrachloroethane	U		50
Tetrachloroethene	U		50
Toluene	U		50
1,2,4-Trichlorobenzene	U		250
1,1,1-Trichloroethane	U		50
1,1,2-Trichloroethane	U		50
Trichloroethene	U		50
Trichlorofluoromethane	U		100
1,2,3-Trichloropropane	U		100
1,2,3-Trimethylbenzene	U		100
1,2,4-Trimethylbenzene	U		100
1,3,5-Trimethylbenzene	U		100
Vinyl Chloride	U		40
m&p-Xylene	U		100
o-Xylene	U		50
4-Bromofluorobenzene(S)	*100*		*76-127*
Dibromofluoromethane(S)	*107*		*76-126*
1,2-Dichloroethane-d4(S)	*119*		*75-120*
Toluene-d8(S)	*103*		*80-120*

VP22A10A: Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD)

EPA 8260D

Run Time: VP22A10A.LCS: 01/10/2022 10:02 [VP22A10A] VP22A10A.LCSD: 01/10/2022 10:29 [VP22A10A]

Analyte	LCS Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	LCSD Spike Amount	LCSD Result	LCSD Rec.	LCSD Qualifier	RPD	RPD Limits	RPD Qualifier
	µg/kg	µg/kg	%	%		µg/kg	µg/kg	%		%	%	
Acetone	2500	3040	122	50-149		2500	2510	100		20	20	
Acrylonitrile	2500	2560	102	70-130		2500	2460	98		4	20	
Benzene	2500	2420	97	75-125		2500	2360	94		3	20	
Bromobenzene	2500	2230	89	70-120		2500	2170	87		2	20	
Bromochloromethane	2500	2240	90	70-125		2500	2140	86		5	20	
Bromodichloromethane	2500	2650	106	70-130		2500	2630	105		1	20	
Bromoform	2500	2850	114	70-130		2500	2850	114		0	20	
Bromomethane	2500	2910	117	66-134		2500	3080	123		5	20	
2-Butanone	2500	2540	102	67-131		2500	2610	104		2	20	
n-Butylbenzene	2500	2740	110	70-130		2500	2670	107		3	20	
sec-Butylbenzene	2500	2720	109	70-130		2500	2640	106		3	20	
tert-Butylbenzene	2500	2710	109	70-130		2500	2680	107		2	20	
Carbon Tetrachloride	2500	2900	116	70-130		2500	2800	112		4	20	
Chlorobenzene	2500	2490	100	75-125		2500	2450	98		2	20	
Chloroethane	2500	2810	113	70-141		2500	2790	112		1	20	
Chloroform	2500	2340	93	80-120		2500	2340	94		1	20	
2-Chlorotoluene	2500	2560	103	70-130		2500	2460	99		4	20	
1,2-Dibromo-3-chloropropane (SIM)	2500	2500	100	70-130		2500	2550	102		2	20	
Dibromochloromethane	2500	2510	100	70-130		2500	2500	100		0	20	
Dibromomethane	2500	2570	103	70-130		2500	2530	101		2	20	
1,2-Dichlorobenzene	2500	2430	97	75-120		2500	2410	96		1	20	
1,3-Dichlorobenzene	2500	2500	100	70-125		2500	2430	97		3	20	
1,4-Dichlorobenzene	2500	2480	99	70-125		2500	2430	97		2	20	
Dichlorodifluoromethane	2500	2430	97	65-135		2500	2420	97		0	20	
1,1-Dichloroethane	2500	2320	93	75-125		2500	2290	92		1	20	
1,2-Dichloroethane	2500	2690	107	70-130		2500	2700	108		1	20	
1,1-Dichloroethene	2500	2450	98	75-120		2500	2030	81		19	20	
cis-1,2-Dichloroethene	2500	2510	100	70-125		2500	2510	100		0	20	
trans-1,2-Dichloroethene	2500	2730	109	70-130		2500	2410	96		13	20	
1,2-Dichloropropane	2500	2530	101	80-120		2500	2520	101		0	20	
cis-1,3-Dichloropropene	2500	2510	100	70-125		2500	2490	100		0	20	
trans-1,3-Dichloropropene	2500	2880	115	70-125		2500	2900	116		1	20	
Ethylbenzene	2500	2680	107	80-120		2500	2620	105		2	20	

VP22A10A: Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) — EPA 8260D

Run Time: VP22A10A.LCS: 01/10/2022 10:02 [VP22A10A] VP22A10A.LCSD: 01/10/2022 10:29 [VP22A10A]

Analyte	LCS Spike Amount µg/kg	LCS Result µg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier	LCSD Spike Amount µg/kg	LCSD Result µg/kg	LCSD Rec. %	LCSD Qualifier	RPD %	RPD Limits %	RPD Qualifier
Ethylene Dibromide	2500	2600	104	70-125		2500	2610	104		0	20	
2-Hexanone	2500	2640	106	70-130		2500	2700	108		2	20	
Isopropylbenzene	2500	2870	115	75-130		2500	2780	111		4	20	
4-Methyl-2-pentanone	2500	2640	106	70-130		2500	2820	113		6	20	
Methylene Chloride	2500	2620	105	70-130		2500	2210	89		16	20	
2-Methylnaphthalene	2500	2890	116	61-136		2500	2890	116		0	20	
MTBE	2500	2940	118	70-130		2500	2650	106		11	20	
Naphthalene	2500	2700	108	70-125		2500	2660	106		2	20	
n-Propylbenzene	2500	2570	103	70-130		2500	2460	98		5	20	
Styrene	2500	2540	102	75-125		2500	2470	99		3	20	
1,1,1,2-Tetrachloroethane	2500	2680	107	75-125		2500	2650	106		1	20	
1,1,2,2-Tetrachloroethane	2500	2690	108	70-130		2500	2610	104		4	20	
Tetrachloroethene	2500	2540	101	70-130		2500	2480	99		2	20	
Toluene	2500	2610	104	80-120		2500	2530	101		3	20	
1,2,4-Trichlorobenzene	2500	2600	104	70-130		2500	2570	103		1	20	
1,1,1-Trichloroethane	2500	2740	110	70-130		2500	2750	110		0	20	
1,1,2-Trichloroethane	2500	2520	101	70-125		2500	2460	98		3	20	
Trichloroethene	2500	2440	98	75-125		2500	2320	93		5	20	
Trichlorofluoromethane	2500	3200	128	50-150		2500	2900	116		10	20	
1,2,3-Trichloropropane	2500	2660	106	70-130		2500	2690	107		1	20	
1,2,3-Trimethylbenzene	2500	2640	106	70-130		2500	2570	103		3	20	
1,2,4-Trimethylbenzene	2500	2820	113	70-130		2500	2720	109		4	20	
1,3,5-Trimethylbenzene	2500	2760	110	70-130		2500	2660	106		4	20	
Vinyl Chloride	2500	2390	95	69-120		2500	2460	99		4	20	
m&p-Xylene	5000	5590	112	80-125		5000	5480	110		2	20	
o-Xylene	2500	2830	113	75-125		2500	2760	111		2	20	
4-Bromofluorobenzene(S)			*108*	*76-127*				*106*				
Dibromofluoromethane(S)			*98*	*76-126*				*100*				
1,2-Dichloroethane-d4(S)			*117*	*75-120*				*115*				
Toluene-d8(S)			*101*	*80-120*				*101*				

VP22A11A: Method Blank (MB) — EPA 8260D

Run Time: VP22A11A.MB 01/11/2022 11:03 [VP22A11A]

Analyte	MB Result µg/kg	MB Qualifier	MB RDL µg/kg
Carbon Disulfide	U		250
Chloromethane	U		250
4-Bromofluorobenzene(S)	*98*		*76-127*
Dibromofluoromethane(S)	*102*		*76-126*
1,2-Dichloroethane-d4(S)	*106*		*75-120*
Toluene-d8(S)	*103*		*80-120*

VP22A11A: Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) — EPA 8260D

Run Time: VP22A11A.LCS: 01/11/2022 09:43 [VP22A11A] VP22A11A.LCSD: 01/11/2022 10:10 [VP22A11A]

Analyte	LCS Spike Amount µg/kg	LCS Result µg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier	LCSD Spike Amount µg/kg	LCSD Result µg/kg	LCSD Rec. %	LCSD Qualifier	RPD %	RPD Limits %	RPD Qualifier
Carbon Disulfide	2500	2050	82	70-130		2500	1910	77		6	20	
Chloromethane	2500	2270	91	63-130		2500	2110	84		8	20	
4-Bromofluorobenzene(S)			*101*	*76-127*				*103*				
Dibromofluoromethane(S)			*96*	*76-126*				*97*				
1,2-Dichloroethane-d4(S)			*101*	*75-120*				*107*				
Toluene-d8(S)			*102*	*80-120*				*101*				

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

By Jacob Sutherlund at 1:49 PM, Jan 14, 2022