

October 19, 2021

Mr. Chad Pitcher
INDOT Environmental Services Division
Environmental Policy Office
Indianapolis, Indiana
cpitcher@indot.IN.gov

**Re: Phase II ESA
Excess Parcel 94
57 West Main Street
New Palestine, IN
LA Code 4461-94
SESCO #11720**

Dear Mr. Pitcher,

SESCO Group (SESCO) is pleased to provide you with this summary of the Phase II Environmental Site Assessment (ESA) activities performed within the vacant lot located at southeast corner of the intersection of Highway 52 (W. Main Street) with County Road 500 West in New Palestine, Hancock County, Indiana (hereinafter "Project Area"). A topographic map of the Project Area is included as **Figure 1**.

The soil and groundwater sampling was performed in response to reported historical operations at the Project Area from a former drop-off dry cleaner facility.

Phase II Activities

SESCO mobilized to the Project Area on September 10, 2021, to advance a total of three (3) soil borings (SB-1, SB-2 and SB-3) to a depth of 20 feet below ground surface (bgs). The sample locations are depicted on **Figure 2**.

The soil borings were installed using a track-mounted Geoprobe® 7822 DT drilling rig equipped with direct-push technology. The subsurface geology was primarily silty clay with thin saturated sand lenses approximately 16 to 17 feet below ground surface (bgs), followed by silty clay to 20 feet bgs. Groundwater was encountered at approximately 16 to 17 feet bgs. The soil boring locations are depicted on **Figure 2**.

Soil samples collected from each boring were field screened to determine the presence or absence of volatile constituents using a photoionization detector (PID) and visual evidence, such as staining, and/or odors. Additionally, one (1) groundwater sample was collected from boring SB-2 via a temporary piezometer.

Soil samples were obtained using a two (2)-inch diameter, 48-inch long, acetate lined, stainless steel core barrel sampler; and were logged continuously in two (2)-foot depth intervals in each boring beginning at the ground surface. New disposable acetate liners were used for each sample collection. All reusable equipment exposed to the soil samples was constructed of stainless steel and decontaminated before each use. Decontamination of equipment involved an Alconox® detergent wash and triple water rinse.

Soils were classified using the Unified Soil Classification System (USCS) and field screened in two (2)-foot intervals using visual and olfactory observations and a hand-held Photoionization Device (PID) equipped with a 10.6 electron volt (eV) lamp. Upon retrieval, each soil sample was split into two (2) portions. One (1) portion of the sample was immediately placed in laboratory-supplied containers and placed on ice for possible laboratory analysis. The second portion of the sample was placed in a sealable plastic container for headspace analysis. Following placement in the sealable container, the headspace was allowed to equilibrate for approximately 15 minutes. The PID probe tip was then inserted into the container and the maximum instrument response was recorded on the boring log. One (1) soil sample was collected from each boring at the interval that appeared to be most likely impacted based on field screening. Additional soil samples were collected from the terminus of borings SB-1 and SB-3. Complete soil descriptions and PID readings are included on the boring logs provided in **Appendix A**.

Upon completing soil sample collection activities, a temporary piezometer was placed into soil boring location SB-2 (see locations indicated in **Figure 2**) to allow for collection of a groundwater sample.

Soil samples for volatile organic compound (VOC) analysis were collected using USEPA Sampling Method 5035A. All soil and groundwater samples were submitted for laboratory analysis of VOCs via USEPA Test Method 8260. All laboratory analyses for soil samples are on a dry weight basis. The soil and groundwater samples were labeled, logged on the chain-of-custody and placed on ice in an insulated cooler, at or below four degrees Celsius (4°C), for transport to ENVision Laboratories of Indianapolis, Indiana.

Soil Analytical Results Summary

Soil laboratory analytical results were compared to the IDEM Remediation Closure Guide (RCG) Migration to Groundwater (MTG) screening levels (SLs), Direct Contact residential screening levels (DCRSLs) and Direct Contact industrial/commercial screening levels (DCISLs).

The concentrations of all contaminants of concern (COCs) were below IDEM screening levels and laboratory reporting levels. The soil analytical results have been summarized in **Table 1** and depicted in **Figure 2**. The laboratory analytical report with chain-of-custody documentation is included in **Appendix B**.

Groundwater Analytical Results Summary

Groundwater samples were compared to the IDEM RCG Groundwater Tap RSLs. Review of the analytical results indicate that the concentrations of all COCs were below their respective IDEM RCG screening levels as well as laboratory reporting levels. The groundwater analytical results have been summarized in **Table 2** and depicted in **Figure 2**. The laboratory analytical report with chain-of-custody documentation is included in **Appendix B**.

LA Code 4461-94
57 W Main St
New Palestine, IN
SESCO #11720
October 19, 2021

Recommendations

Based on the soil and groundwater Phase II ESA analytical results, the property located at 57 W. Main Street does not appear to be impacted by historical operations from a dry cleaning drop-off facility.

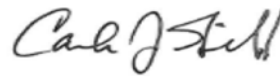
The use of the Uncontaminated Soil Policy (Waste-0064-NPD) can be applied for the Project Area that was investigated during SESCO's Phase II ESA activities and standard Personal Protective Equipment (PPE) is sufficient for providing worker safety.

Thank you for allowing SESCO to assist you with your environmental and redevelopment needs. If you have any questions regarding this project, please contact Carla Gill at (317) 519-0792.

Sincerely,
SESCO Group



Tonia Pippin, **CHMM #19649**
Senior Project Manager



Carla Gill, **CHMM #13243**
Technical Director

FIGURES

Figure 1 – Topographic Map

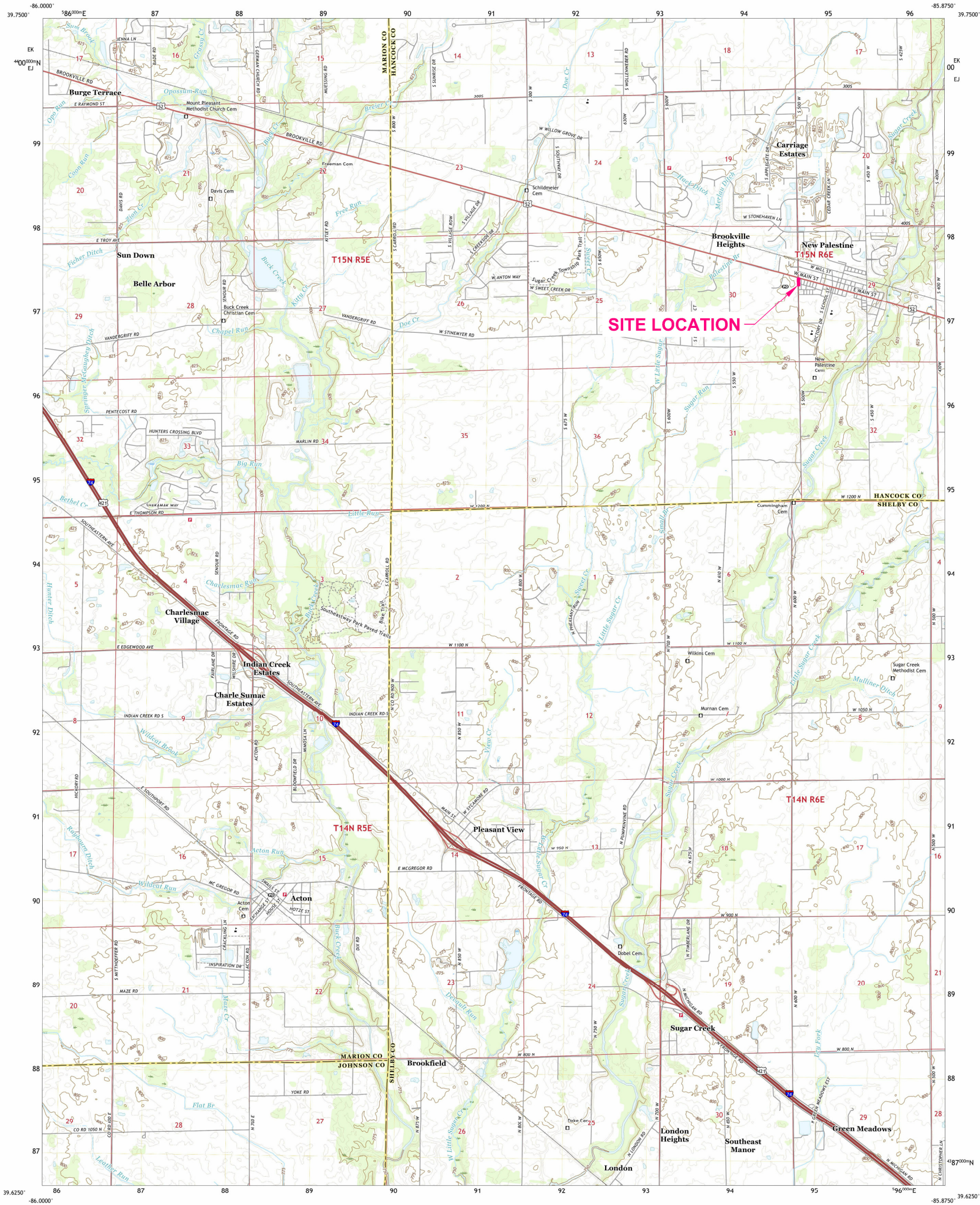
Figure 2 – Soil Boring Map



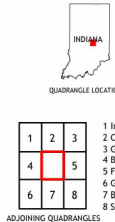
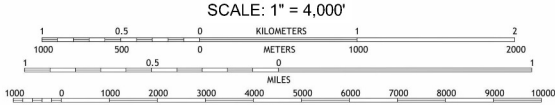
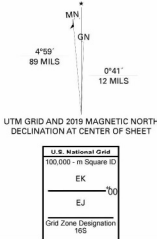
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



ACTON QUADRANGLE
INDIANA
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid/Universal Transverse Mercator, Zone 16S
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.
Imagery.....NAIP, June 2016 - October 2016
Roads.....U.S. Census Bureau, 2016
Names.....GNIS, 1979 - 2019
Hydrography.....National Hydrography Dataset, 2003 - 2018
Contours.....National Elevation Dataset, 2016 - 2018
Boundaries.....Multiple sources; see metadata file 2017 - 2018
Public Land Survey System.....BLM, 2018
Wetlands.....FWS National Wetlands Inventory, 1980



ACTON, IN
2019

LEGEND

PROJECT LOCATION

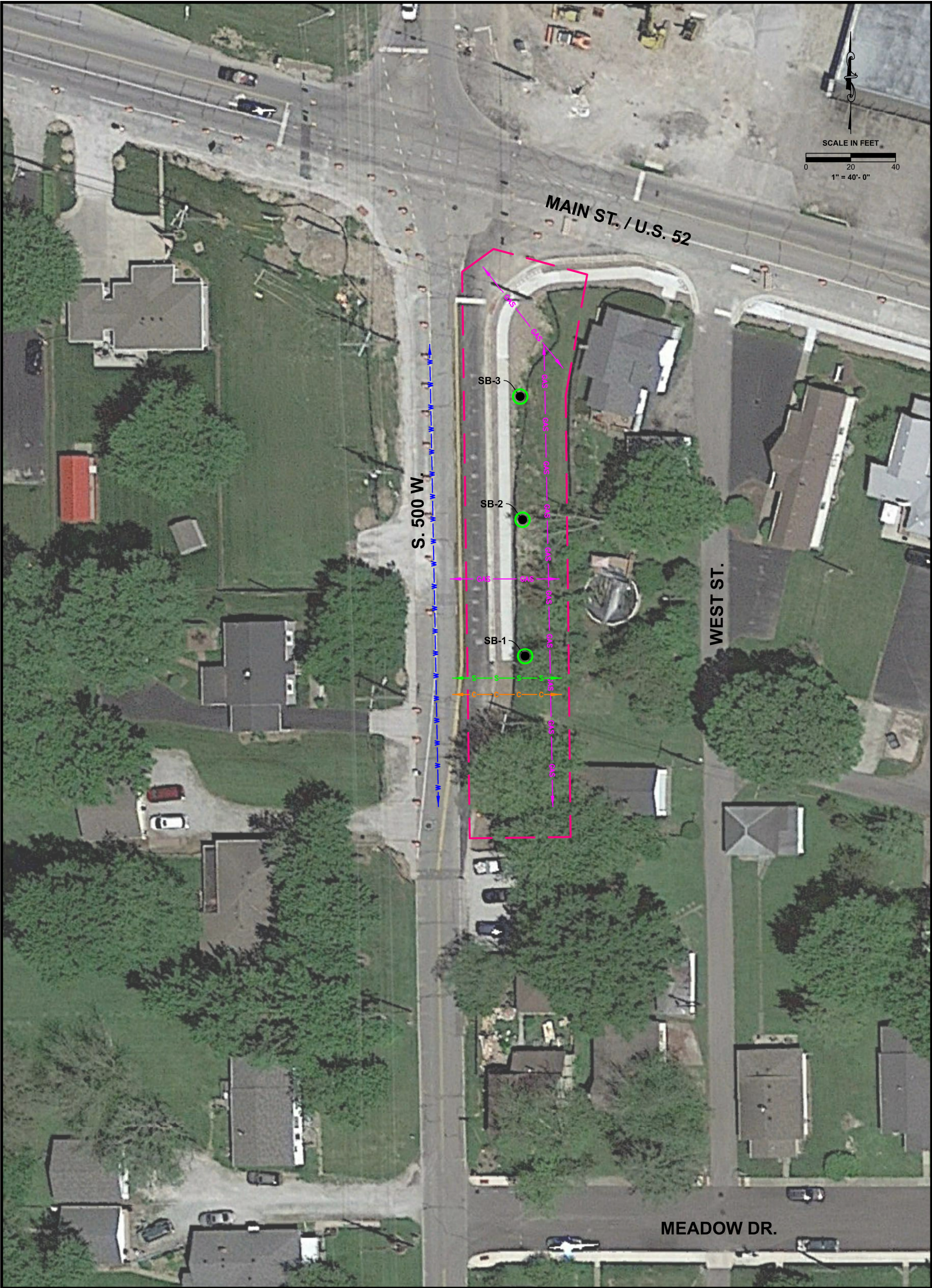
USGS TOPOGRAPHIC MAP

PHASE II ENVIRONMENTAL SITE ASSESSMENT
INDOT PARCEL 94
57 W. MAIN ST.
NEW PALESTINE, INDIANA 46163

DRAWN BY: ELC	DATE: 10-01-2021	PROJECT # 11720	FIGURE # 1
REVIEWED BY: CJG			



\\SES-DC\Projects\Consulting\@SESCO Technical Docs\#11720 INDOT Parcel 94, New Palestine\Phase II Report\Figures\Site Map.DWG, SITE, 9/28/2021 9:03:36 AM



LEGEND

- | | | | |
|-------|-------------------|------|--|
| ● | SOIL BORING | ○ | RESULTS BELOW RCG SOIL
MTG RSLs & GW TAP RSLs |
| — | PROPERTY BOUNDARY | ○ | RESULTS ABOVE RCG SOIL
MTG RSLs & GW TAP RSLs |
| —W—W— | WATER | RCG | REMEDiation CLOSURE GUIDE |
| —GAS— | GAS | MTG | MIGRATION TO GROUNDWATER |
| —S—S— | SEWER | RSLs | RESIDENTIAL SCREENING LEVELS |
| —C—C— | COMMUNICATION | GW | GROUNDWATER |
| | | TAP | TAP WATER |

SITE MAP

PHASE II ENVIRONMENTAL SITE ASSESSMENT
INDOT PARCEL 94
57 W. MAIN ST.
NEW PALESTINE, INDIANA 46163

DRAWN BY: ELC	DATE: 10-01-2021	PROJECT # 11720	FIGURE # 2
REVIEWED BY: CJG			

TABLES

Table 1 – Soil Analytical Results

Table 2 – Groundwater Analytical Results

Table 1
 Soil Analytical Results - VOCs
 Vacant Parcel 94
 57 W Main St., New Palestine, IN
 INDOT LA Code 4461
 SESCO Project # 11720

Sample ID	Date Sampled	Units in mg/kg (ppm)		
		Tetrachloroethene	Trichloroethene	All Remaining VOCss
RCG Soil MTG RSLs		0.045	0.036	0.079
RCG Soil Exposure DCRSLs		110	5.7	28
RCG Soil Exposure DCISLs		170	19	86
SB-1 (14-16)	9/10/21	< 0.005	< 0.005	ND
SB-1 (18-20)	9/10/21	< 0.006	< 0.006	ND
SB-2 (14-16)	9/10/21	< 0.006	< 0.006	ND
SB-3 (14-16)	9/10/21	< 0.006	< 0.006	ND
SB-3 (18-20)	9/10/21	< 0.005	< 0.005	ND

Notes;

mg/kg - Milligrams per kilogram

ppm - Parts per million

VOC - Volatile Organic Compound

ND - Non-detect (below laboratory detection)

Blue - COC concentration greater than the Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Soil Migration to Groundwater (MTG) Residential Screening Levels (RSLs), March 22, 2012 (updated March 2021).

Yellow - COC concentration greater than the IDEM RCG Soil Exposure Direct Contact Residential Screening Levels (DCRSLs), March 22, 2012 (updated March 2021)

Red - COC concentration greater than the IDEM RCG Soil Exposure Direct Contact Commercial/Industrial Screening Levels (DCISLs), March 22, 2012 (updated March 2021)

Bold - COC concentration detected, but below the IDEM RCG Soil MTG RSLs, March 22, 2012 (updated March 2021)

Table 2
Groundwater Analytical Results- VOCs
Vacant Parcel 94
57 W Main St., New Palestine, IN
INDOT LA Code 4461
SESCO Project # 11720

Sample ID	Date Sampled	Units in ug/L (ppb)		
		Tetrachloroethene	Trichloroethene	Remaining VOCs
IDEM RCG Groundwater Tap RSLs		5	5	Various
SB-2 (16-20)	9/10/21	<5	<5	ND

Notes;

VOCs - Volatile Organic Compounds

µg/L - Micrograms per liter

ppb - Parts per billion

SB - Soil Boring

ND - Not detected above laboratory reporting limits

Bold - Concentration greater than the IDEM RCG Groundwater Tap Residential Screening Level (RSL) (updated March 2021)

Bold - Concentration detected above the laboratory reporting limit, but below the IDEM RCG Groundwater Tap RSL (updated March 2021)

APPENDIX A

SOIL BORING LOGS



PROJECT NAME: INDOT

BORING ID: SB-1

PROJECT NO: 11720

NORTH: -

EAST: -

TOC ELEVATION: -

START DATE: 9-10-2021

FINISH DATE: 9-10-2021

GROUND SURFACE ELEVATION: -

WATER LEVEL: 16.5'

DRILLER: Jake Chapman #4040

DRILL EQUIP: Geoprobe 7822DT

CITY: New Palestine

DRILLING METHOD: Direct Push-Dual Tube

FIELD PERSON: Garrett Byrd

STATE: Indiana

CONTRACTOR: SCS

CHECKED BY: Stephen Gray, LPG #1811

ELEV (FT.)	DEPTH (FT.)	SAMPLE TYPE	SAMPLE NAME	Drive/ Rec (%)	PID/ FID	DEPTH TO WATER	LITHOLOGY	DESCRIPTION	USCS	REMARKS
0.0	0.0				0.3		Topsoil			
				80	0.3		Silty CLAY, Dark Grayish Brown (4/2 10YR), Dry, Firm, Non-Plastic			
					0.3		Silty CLAY, Mottled- Brown (5/3 10YR) and Yellowish Brown (5/6 10YR), Moist, Firm, Low Plasticity, Trace Fine Sand	CL		
5.0	5.0			80	0.3		Silty CLAY, Mottled- Gray (6/1 10YR) and Yellowish Brown (5/6 10YR), Moist, Stiff, Low Plasticity, Trace Fine Sand			All soil was screened using a miniRAE 3000 Photo-Ionization Detector (PID) equipped with a 10.6 eV lamp.
					0.3		Fine Sand SILT, Mottled- Brown (5/3 10YR) and Yellowish Brown (5/6 10YR), Moist, Stiff, Non-Plastic	ML		
10.0	10.0			80	0.3		Silty Fine SAND, Brown (5/3 10YR), Very Moist, Dense, Poorly Graded	SM		
					0.4		Silty CLAY, Dark Grayish Brown (4/2 10YR), Moist, Very Stiff, Low Plasticity			Soil samples SB-1(14-16) and SB-1(18-20) were analyzed for VOCs via Method 8260.
					0.2		Silty CLAY, Dark Gray (4/1 10YR), Stained- Black (2/1 10YR) 15'bgs, Moist, Stiff, Low Plasticity, Trace Coarse SAND	CL		
15.0	15.0	SS	SB-1(14-16)	100	0.3		Silty Fine SAND, Gray (5/1 10YR), Moist, Medium Dense, Poorly Graded	SM		
					0.1		Fine to Coarse SAND, Grayish Brown (5/2 10YR), Wet, Medium Dense, Well Graded, Grades with Depth	SW		
					0.3		Fine Sand SILT, Gray (5/1 10YR), Wet, Very Stiff, Non-Plastic	ML		
		SS	SB-1(18-20)	100	0.3		Fine to Coarse SAND, Grayish Brown (5/2 10YR), Wet, Medium Dense, Well Graded, Grades with Depth	SW		
20.0	20.0						SB-1 terminated at 20'bgs.			

LEGEND:
 GW = Groundwater Sample
 NA = Not Applicable
 SG = Soil-Gas Sample
 SS = Soil Sample

DEPTH TO WATER SYMBOLOGY



WATER LEVEL ENCOUNTERED DURING DRILLING



STATIC WATER LEVEL



PROJECT NAME: INDOT

BORING ID: SB-2

PROJECT NO: 11720

NORTH: -

EAST: -

TOC ELEVATION: -

START DATE: 9-10-2021

FINISH DATE: 9-10-2021

GROUND SURFACE ELEVATION: -

WATER LEVEL: 16'

DRILLER: Jake Chapman #4040

DRILL EQUIP: Geoprobe 7822DT

CITY: New Palestine

DRILLING METHOD: Direct Push-Dual Tube

FIELD PERSON: Garrett Byrd

STATE: Indiana

CONTRACTOR: SCS

CHECKED BY: Stephen Gray, LPG #1811

ELEV (FT.)	DEPTH (FT.)	SAMPLE TYPE	SAMPLE NAME	Drive/ Rec (%)	PID/ FID	DEPTH TO WATER	LITHOLOGY	DESCRIPTION	USCS	REMARKS
0.0	0.0				0.2		Topsoil	Silty CLAY, Dark Grayish Brown (4/2 10YR), Dry, Firm, Non-Plastic		
				85	0.2			Silty CLAY, Mottled- Brown (5/3 10YR) and Yellowish Brown (5/6 10YR), Moist, Firm, Low Plasticity, Trace Fine Sand		
5.0	5.0				0.3			Silty CLAY, Brown (5/3 10YR), Mottled- Gray (5/1 10YR) 5-7'bgs, Moist, Stiff, Non-Plastic, Some Fine Sand 4-6'bgs		All soil was screened using a miniRAE 3000 Photo-Ionization Detector (PID) equipped with a 10.6 eV lamp.
				85	0.3					
					0.3					
10.0	10.0				0.3			Silty CLAY, Brown (4/3 10YR), Dry, Very Stiff, Non-Plastic, Trace Coarse Sand	CL	
				100	0.3					Soil sample SB-2(14-16) was analyzed for VOCs via Method 8260.
					0.3			Silty CLAY, Dark Gray (4/1 10YR), Dry, Very Stiff, Non-Plastic, Trace Coarse Sand		
				75	0.3					
15.0	15.0	SS	SB-2(14-16)		0.3			Silty CLAY, Dark Gray (4/1 10YR), Stained- Black (2/1 10YR) at 15'bgs, Moist, Firm, Low Plasticity		Groundwater sample SB-2(16-20) was collected via mini bailer in a temporary piezometer with 10' screen and analyzed for VOCs via Method 8260. No water purged.
					0.2			Fine to Medium SAND, Dark Gray (4/1 10YR), Wet, Dense, Well Graded, Trace Coarse Sand	SW	
		GW	SB-2(16-20)	80	0.1			Clayey SILT, Dark Gray (4/1 10YR), Moist, Very Stiff, Non-Plastic	ML	
20.0	20.0							SB-2 terminated at 20'bgs.		

LEGEND:

GW = Groundwater Sample
NA = Not Applicable
SG = Soil-Gas Sample
SS = Soil Sample

DEPTH TO WATER SYMBOLOGY



WATER LEVEL ENCOUNTERED DURING DRILLING



STATIC WATER LEVEL



PROJECT NAME: INDOT

BORING ID: SB-3

PROJECT NO: 11720 **NORTH:** - **EAST:** - **TOC ELEVATION:** -
START DATE: 9-10-2021 **FINISH DATE:** 9-10-2021 **GROUND SURFACE ELEVATION:** - **WATER LEVEL:** 17'

DRILLER: Jake Chapman #4040 **DRILL EQUIP:** Geoprobe 7822DT **CITY:** New Palestine
DRILLING METHOD: Direct Push-Dual Tube **FIELD PERSON:** Garrett Byrd **STATE:** Indiana
CONTRACTOR: SCS **CHECKED BY:** Stephen Gray, LPG #1811

ELEV (FT.)	DEPTH (FT.)	SAMPLE TYPE	SAMPLE NAME	Drive/ Rec (%)	PID/ FID	DEPTH TO WATER	LITHOLOGY	DESCRIPTION	USCS	REMARKS
0.0	0.0				0.1			Topsoil		
				80	0.1			Silty CLAY, Dark Grayish Brown (4/2 10YR), Dry, Firm, Non-Plastic		
					0.1			Silty CLAY, Mottled- Brown (5/3 10YR) and Yellowish Brown (5/6 10YR), Moist, Firm, Low Plasticity, Trace Fine Sand and Brick		
5.0	5.0				0.2			Silty CLAY, Mottled- Gray (6/1 10YR) and Yellowish Brown (5/6 10YR), Moist, Stiff, Low Plasticity, Trace Fine Sand		
				90	0.2					
					0.2			Silty CLAY, Mottled- Gray (5/1 10YR) and Yellowish Brown (5/6 10YR) and Brown (5/3 10YR), Moist, Stiff, Low Plasticity	CL	
10.0	10.0				0.2			Silty CLAY, Brown (5/3 10YR), Moist, Firm, Low Plasticity		
				100	0.2					
					0.2			Silty CLAY, Dark Gray (4/1 10YR), Moist, Firm, Low Plasticity		
15.0	15.0	SS	SB-3(14-16)		0.3					
					0.3			Fine to Medium SAND, Dark Gray (4/1 10YR), Wet, Dense, Poorly Graded	SP	
				100	0.3			Silty CLAY, Dark Gray (4/1 10YR), Moist, Very Stiff, Non-Plastic	CL	
20.0	20.0	SS	SB-3(18-20)		0.3					
								SB-3 terminated at 20' bgs.		

All soil was screened using a miniRAE 3000 Photo-Ionization Detector (PID) equipped with a 10.6 eV lamp.

Soil samples SB-3(14-16) and SB-3(18-20) were analyzed for VOCs via Method 8260.

LEGEND:
 GW = Groundwater Sample
 NA = Not Applicable
 SG = Soil-Gas Sample
 SS = Soil Sample

DEPTH TO WATER SYMBOLOGY



WATER LEVEL ENCOUNTERED DURING DRILLING



STATIC WATER LEVEL

APPENDIX B

Laboratory Results and Chain of Custody



ENVision Laboratories, Inc.
1439 Sadlier Circle West Drive
Indianapolis, IN 46239
Tel: 317.351.8632
Fax: 317.351.8639
www.envisionlaboratories.com

Ms. Carla Gill
SESCO Group
1925 Shelby Street
Indianapolis, IN 46203

September 16, 2021

ENVision Project Number: 2021-1824
Client Project Name: INDOT #11720

Dear Ms. Gill,

Please find the attached analytical report for the samples received September 10, 2021. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

The reference for the preservation technique utilized by ENVision Laboratories for Volatile Organics in soil may be found on Table A.1 (p. 42) of Method 5035A: Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples, July 2002, Draft Revision 1.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads 'David Norris'.

David Norris

Client Services Manager
ENVision Laboratories, Inc.



Client Name: SESCO GROUP

Project ID: INDOT #11720

Client Project Manager: CARLA GILL

ENVision Project Number: 2021-1824

Analytical Method: EPA 8260

Prep Method: EPA 5035A

Analytical Batch: 091021VS

Client Sample ID: SB-1 (14-16)

Envision Sample Number: 21-12557

Sample Matrix: soil

Sample Collection Date/Time: 9/10/21 11:05

Sample Received Date/Time: 9/10/21 12:45

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.110	0.110	
Acrolein	< 0.00019	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.055	0.055	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.055	0.055	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0019	0.0019	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00031	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.110	0.110	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.022	0.022	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.005	0.005	
1-Methylnaphthalene	< 0.005	0.005	
2-Methylnaphthalene	< 0.005	0.005	
Naphthalene	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	< 0.005	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, Ortho	< 0.005	0.005	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	108%		
1,2-Dichloroethane-d4 (surrogate)	110%		
Toluene-d8 (surrogate)	91%		
4-bromofluorobenzene (surrogate)	89%		
Analysis Date/Time:	9-10-21/21:49		
Analyst Initials	gjd		
Percent Solids:	91%		
All results reported on dry weight basis.			



Analytical Report

ENVision Laboratories, Inc.
1439 Sadlier Circle West Drive
Indianapolis, IN 46239
Tel: 317.351.8632
Fax: 317.351.8639
www.envisionlaboratories.com

Client Name: SESCO GROUP

Project ID: INDOT #11720

Client Project Manager: CARLA GILL

ENVision Project Number: 2021-1824

Client Sample ID: SB-1 (14-16)

Envision Sample Number: 21-12557

Sample Matrix: soil

Sample Collection Date/Time: 9/10/21 11:05

Sample Received Date/Time: 9/10/21 12:45

Analyte

Percent Moisture

Percent Solids

Analysis Date:

Analyst Initials

Sample Results

9.0%

91.0%

9/10/21

ag

Flags

Method

EPA 1684

EPA 1684



Client Name: SESCO GROUP

Project ID: INDOT #11720

Client Project Manager: CARLA GILL

ENVision Project Number: 2021-1824

Analytical Method: EPA 8260

Prep Method: EPA 5035A

Analytical Batch: 091021VS

Client Sample ID: SB-1 (18-20)

Envision Sample Number: 21-12558

Sample Matrix: soil

Sample Collection Date/Time: 9/10/21 11:10

Sample Received Date/Time: 9/10/21 12:45

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.115	0.115	
Acrolein	< 0.00020	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.057	0.057	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.057	0.057	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00032	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.115	0.115	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.023	0.023	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.006	0.006	
1-Methylnaphthalene	< 0.006	0.006	
2-Methylnaphthalene	< 0.006	0.006	
Naphthalene	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	117%		
1,2-Dichloroethane-d4 (surrogate)	100%		
Toluene-d8 (surrogate)	84%		
4-bromofluorobenzene (surrogate)	83%		
Analysis Date/Time:	9-10-21/22:08		
Analyst Initials	gjd		

Percent Solids:

87%

All results reported on dry weight basis.



Analytical Report

ENVision Laboratories, Inc.
1439 Sadlier Circle West Drive
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Tel: 317.351.8632
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Client Name: SESCO GROUP

Project ID: INDOT #11720

Client Project Manager: CARLA GILL

ENVision Project Number: 2021-1824

Client Sample ID: SB-1 (18-20)

Envision Sample Number: 21-12558

Sample Matrix: soil

Sample Collection Date/Time: 9/10/21 11:10

Sample Received Date/Time: 9/10/21 12:45

Analyte

Percent Moisture

Percent Solids

Analysis Date:

Analyst Initials

Sample Results

13.0%

87.0%

9/10/21

ag

Flags

Method

EPA 1684

EPA 1684



Client Name: SESCO GROUP

Project ID: INDOT #11720

Client Project Manager: CARLA GILL

ENVision Project Number: 2021-1824

Analytical Method: EPA 8260

Prep Method: EPA 5035A

Analytical Batch: 091021VS

Client Sample ID: SB-2 (14-16)

Envision Sample Number: 21-12559

Sample Matrix: soil

Sample Collection Date/Time: 9/10/21 11:35

Sample Received Date/Time: 9/10/21 12:45

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.112	0.112	
Acrolein	< 0.00019	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.056	0.056	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.056	0.056	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0019	0.0019	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00031	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	

**8260 continued...**

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.112	0.112	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.022	0.022	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.006	0.006	
1-Methylnaphthalene	< 0.006	0.006	
2-Methylnaphthalene	< 0.006	0.006	
Naphthalene	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	108%		
1,2-Dichloroethane-d4 (surrogate)	105%		
Toluene-d8 (surrogate)	96%		
4-bromofluorobenzene (surrogate)	90%		
Analysis Date/Time:	9-10-21/22:26		
Analyst Initials	gjd		
Percent Solids:	89%		
All results reported on dry weight basis.			



Analytical Report

ENVision Laboratories, Inc.
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Indianapolis, IN 46239
Tel: 317.351.8632
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Client Name: SESCO GROUP

Project ID: INDOT #11720

Client Project Manager: CARLA GILL

ENVision Project Number: 2021-1824

Client Sample ID: SB-2 (14-16)

Envision Sample Number: 21-12559

Sample Matrix: soil

Sample Collection Date/Time: 9/10/21 11:35

Sample Received Date/Time: 9/10/21 12:45

Analyte

Percent Moisture

Percent Solids

Analysis Date:

Analyst Initials

Sample Results

11.0%

89.0%

9/10/21

ag

Flags

Method

EPA 1684

EPA 1684



Analytical Report

ENVision Laboratories, Inc.
1439 Sadlier Circle West Drive
Indianapolis, IN 46239
Tel: 317.351.8632
Fax: 317.351.8639
www.envisionlaboratories.com

Client Name: SESCO GROUP

Project ID: INDOT #11720

Client Project Manager: CARLA GILL

ENVision Project Number: 2021-1824

Analytical Method: EPA 8260

Prep Method: EPA 5030B

Analytical Batch: 091421VW

Client Sample ID: SB-2 (16-20)

Envision Sample Number: 21-12560

Sample Matrix: water

Sample Collection Date/Time: 9/10/21 11:40

Sample Received Date/Time: 9/10/21 12:45

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	



Analytical Report

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8260 continued...

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1.2	1.2	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	96%		
1,2-Dichloroethane-d4 (surrogate)	104%		
Toluene-d8 (surrogate)	95%		
4-bromofluorobenzene (surrogate)	88%		
Analysis Date/Time:	9-14-21/13:04		
Analyst Initials	gjd		



Client Name: SESCO GROUP

Project ID: INDOT #11720

Client Project Manager: CARLA GILL

ENVision Project Number: 2021-1824

Analytical Method: EPA 8260

Prep Method: EPA 5035A

Analytical Batch: 091021VS

Client Sample ID: SB-3 (14-16)

Envision Sample Number: 21-12561

Sample Matrix: soil

Sample Collection Date/Time: 9/10/21 12:05

Sample Received Date/Time: 9/10/21 12:45

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.112	0.112	
Acrolein	< 0.00019	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.056	0.056	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.056	0.056	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0019	0.0019	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00031	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.112	0.112	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.022	0.022	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.006	0.006	
1-Methylnaphthalene	< 0.006	0.006	
2-Methylnaphthalene	< 0.006	0.006	
Naphthalene	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, Ortho	< 0.006	0.006	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	118%		
1,2-Dichloroethane-d4 (surrogate)	115%		
Toluene-d8 (surrogate)	85%		
4-bromofluorobenzene (surrogate)	85%		
Analysis Date/Time:	9-10-21/22:45		
Analyst Initials	gjd		

Percent Solids:

89%

All results reported on dry weight basis.



Analytical Report

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Client Name: SESCO GROUP

Project ID: INDOT #11720

Client Project Manager: CARLA GILL

ENVision Project Number: 2021-1824

Client Sample ID: SB-3 (14-16)

Envision Sample Number: 21-12561

Sample Matrix: soil

Sample Collection Date/Time: 9/10/21 12:05

Sample Received Date/Time: 9/10/21 12:45

<u>Analyte</u>	<u>Sample Results</u>	<u>Flags</u>	<u>Method</u>
Percent Moisture	11.0%		EPA 1684
Percent Solids	89.0%		EPA 1684
Analysis Date:	9/10/21		
Analyst Initials	ag		



Client Name: SESCO GROUP

Project ID: INDOT #11720

Client Project Manager: CARLA GILL

ENVision Project Number: 2021-1824

Analytical Method: EPA 8260

Prep Method: EPA 5035A

Analytical Batch: 091021VS

Client Sample ID: SB-3 (18-20)

Envision Sample Number: 21-12562

Sample Matrix: soil

Sample Collection Date/Time: 9/10/21 12:10

Sample Received Date/Time: 9/10/21 12:45

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.109	0.109	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.054	0.054	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.054	0.054	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00030	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	



8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.109	0.109	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.022	0.022	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.005	0.005	
1-Methylnaphthalene	< 0.005	0.005	
2-Methylnaphthalene	< 0.005	0.005	
Naphthalene	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	< 0.005	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, Ortho	< 0.005	0.005	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	113%		
1,2-Dichloroethane-d4 (surrogate)	99%		
Toluene-d8 (surrogate)	87%		
4-bromofluorobenzene (surrogate)	100%		
Analysis Date/Time:	9-10-21/23:03		
Analyst Initials	gjd		

Percent Solids:

92%

All results reported on dry weight basis.



Analytical Report

ENVision Laboratories, Inc.
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Client Name: SESCO GROUP

Project ID: INDOT #11720

Client Project Manager: CARLA GILL

ENVision Project Number: 2021-1824

Client Sample ID: SB-3 (18-20)

Envision Sample Number: 21-12562

Sample Matrix: soil

Sample Collection Date/Time: 9/10/21 12:10

Sample Received Date/Time: 9/10/21 12:45

Analyte

Percent Moisture

Percent Solids

Analysis Date:

Analyst Initials

Sample Results

8.0%

92.0%

9/10/21

ag

Flags

Method

EPA 1684

EPA 1684



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EPA 8260 Quality Control Data

ENVision Batch Number: 091021VS

<u>Method Blank (MB):</u>	<u>MB Results (ug/kg)</u>	<u>Rep Lim (ug/kg)</u>	<u>Flag</u>
Acetone	< 100	100	
Acrolein	< 0.17	1	1
Acrylonitrile	< 2	2	
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1.7	1.7	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 0.28	1	1
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 5	5	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 5	5	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	



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8260 QC Continued...

<u>Method Blank (MB)</u>	<u>MB Results (ug/kg)</u>	<u>Rep Lim (ug/kg)</u>	<u>Flag</u>
Hexachloro-1,3-butadiene	< 5	5	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 20	20	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 5	5	
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 5	5	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Dibromofluoromethane (surrogate)	103%		
1,2-Dichloroethane-d4 (surrogate)	107%		
Toluene-d8 (surrogate)	99%		
4-bromofluorobenzene (surrogate)	100%		
Analysis Date/Time:	9-10-21/15:40		
Analyst Initials	gjd		



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8260 QC Continued...

<u>LCS/LCSD:</u>	<u>LCS Results (ug/kg)</u>	<u>LCS/LCSD Conc.</u> <u>(ug/kg)</u>	<u>LCSD Result</u> <u>(ug/kg)</u>	<u>LCS Rec.</u>	<u>LCSD</u> <u>Rec.</u>	<u>% D</u>	<u>Flag</u>
Vinyl Chloride	54.6	50	58.9	109%	118%	7.6	
1,1-Dichloroethene	55.0	50	53.1	110%	106%	3.5	
trans-1,2-Dichloroethene	46.7	50	51.1	93%	102%	9.0	
Methyl-tert-butyl ether	51.4	50	54.9	103%	110%	6.6	
1,1-Dichloroethane	50.9	50	55.8	102%	112%	9.2	
cis-1,2-Dichloroethene	46.9	50	53.7	94%	107%	13.5	
Chloroform	48.7	50	52.6	97%	105%	7.7	
1,1,1-Trichloroethane	48.7	50	52.9	97%	106%	8.3	
Benzene	47.1	50	52.7	94%	105%	11.2	
Trichloroethene	45.5	50	49.5	91%	99%	8.4	
Toluene	46.7	50	51.5	93%	103%	9.8	
1,1,1,2-Tetrachloroethane	47.5	50	49.9	95%	100%	4.9	
Chlorobenzene	48.9	50	51.0	98%	102%	4.2	
Ethylbenzene	51.8	50	54.2	104%	108%	4.5	
o-Xylene	46.6	50	47.4	93%	95%	1.7	
n-Propylbenzene	52.5	50	52.0	105%	104%	1.0	
Dibromofluoromethane (surrogate)	108%		112%				
1,2-Dichloroethane-d4 (surrogate)	110%		108%				
Toluene-d8 (surrogate)	105%		107%				
4-bromofluorobenzene (surrogate)	104%		105%				
Analysis Date/Time:	9-10-21/15:03		9-10-21/15:22				
Analyst Initials	gjd		gjd				



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EPA 8260 Quality Control Data

ENVision Batch Number: 091421VW

<u>Method Blank (MB):</u>	<u>MB Results (ug/L)</u>	<u>Rep Lim (ug/L)</u>	<u>Flag</u>
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	



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8260 QC Continued...

Method Blank (MB):	MB Results (ug/L)	Rep Lim (ug/L)	Flag
Hexachloro-1,3-butadiene	< 2.6	2.6	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1.2	1.2	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylene (total)	< 10	10	
Dibromofluoromethane (surrogate)	104%		
1,2-Dichloroethane-d4 (surrogate)	107%		
Toluene-d8 (surrogate)	97%		
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	9-14-21/07:57		
Analyst Initials	tjg		



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8260 QC Continued...

<u>LCS/LCSD</u>	<u>LCS Results (ug/L)</u>	<u>LCS/LCSD Conc.</u> <u>(ug/L)</u>	<u>LCSD Result</u> <u>(ug/L)</u>	<u>LCS Rec.</u>	<u>LCSD</u> <u>Rec.</u>	<u>% D</u>	<u>Flag</u>
Vinyl Chloride	46.2	50	44.5	92%	89%	3.7	
1,1-Dichloroethene	53.3	50	52.4	107%	105%	1.7	
trans-1,2-Dichloroethene	53.1	50	53.2	106%	106%	0.2	
Methyl-tert-butyl-ether	51.9	50	52.7	104%	105%	1.5	
1,1-Dichloroethane	57.8	50	57.7	116%	115%	0.2	
cis-1,2-Dichloroethene	53.8	50	50.3	108%	101%	6.7	
Chloroform	52.2	50	52.1	104%	104%	0.2	
1,1,1-Trichloroethane	50.2	50	50.2	100%	100%	0.0	
Benzene	52.8	50	52.0	106%	104%	1.5	
Trichloroethene	51.7	50	50.4	103%	101%	2.5	
Toluene	52.1	50	50.8	104%	102%	2.5	
1,1,1,2-Tetrachloroethane	47.5	50	51.6	95%	103%	8.3	
Chlorobenzene	48.6	50	52.6	97%	105%	7.9	
Ethylbenzene	48.3	50	52.4	97%	105%	8.1	
o-Xylene	49.8	50	54.2	100%	108%	8.5	
n-Propylbenzene	49.1	50	53.8	98%	108%	9.1	
Dibromofluoromethane (surrogate)	100%		97%				
1,2-Dichloroethane-d4 (surrogate)	101%		115%				
Toluene-d8 (surrogate)	111%		102%				
4-bromofluorobenzene (surrogate)	111%		115%				
Analysis Date/Time:	9-14-21/06:52		9-14-21/07:08				
Analyst Initials	tjg		tjg				



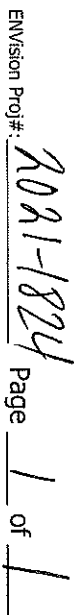
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Flag Number

1

Comments

Reported value is below the reporting limit but above the MDL.



ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: SESCO Group		Invoice Address:		REQUESTED PARAMETERS													
Report: 1925 Shelby St		Project Name: INDOCT		Sample Integrity: 4 °C Cooler Temp: _____ °C (circle) Samples on Ice? ☒ Yes ☐ No Samples Intact? ☒ Yes ☐ No Custody Seal: ☒ Yes ☐ No ENVision provided bottles: ☒ Yes ☐ No VOC vials free of head-space: ☒ Yes ☐ No pH checked? ☒ Yes ☐ No Method 5035 collection used? ☒ Yes ☐ No 5035 samples received within 48 hr of Collection? ☒ Yes ☐ No													
Address: Indianapolis, IN		# 11720															
Report To: Carla Gill		Lab Contact: DN															
Phone: 317-347-9596		Sampled by: ES															
Fax: 317-347-9591		P.O. Number:															
Desired TAT: (Please Circle One) 1-day 2-day 3-day <u>Std</u> (5-7 bus. days)		QA/QC Required: (circle if applicable) <u>100%</u> Level III Level IV															
Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix						HCl	HNO ₃	H ₂ SO ₄	NaOH	Other	None	ENVision Sample ID	
SB-1 (14-16)	9/10/21	1105	G	SL	X											3	21-12557
SB-1 (18-20)		1110		SL												↓	12558
SB-2 (14-16)		1135		SL SL												↓	12559
SB-2 (16-20)		1140		GW											2		12560
SB-3 (14-16)		1205		SL												3	12561
SB-3 (18-20)		1240		SL												↓	12562
Comments:																	
Relinquished by:		Date	Time	Received by:	Date	Time											
<i>[Signature]</i>		9/10/21	1245	<i>[Signature]</i>	9/10/21	1245											

5035 CHECK-IN SHEET

Client Name: SESCO GROUP

ENVision project#: 2021-1824

Cooler Temp: 4°C

Method 5035A used: YES X NO ☐

ENVision provided tared vials w/stir bars & Terra Core T-handles: YES X NO ☐

5035A samples were received within 48 hrs of collection: YES X NO ☐

5035A samples were frozen within 48 hrs of collection by lab: YES X NO ☐

If NO, did client freeze samples? YES ☐ NO ☐

5035A Table A.1 Reference:

Sample is extruded into an empty sealed vial and cooled to $4^{\circ} \pm 2^{\circ}\text{C}$ for no more than 48 hours then frozen to $< -7^{\circ}\text{C}$ upon laboratory receipt.

Methanol was added to a vial from each sample for Medium-Level dilution within 48 hrs of collection: YES X NO ☐

5035A Table A.1 Reference:

Sample is extruded into an empty sealed vial and cooled to $4^{\circ} \pm 2^{\circ}\text{C}$ for no more than 48 hours then preserved with methanol upon laboratory receipt.

Performed by/Date: LISA DAULTON 09-10-21