INVENTUM ENGINEERING

Secondary Containment Closure Construction Completion Report

Caustic Tank ST10

Riverview Innovation & Technology Campus

Brownfield Cleanup Program Site No. C915353

3875 River Road

Tonawanda, New York 14150

October 21, 2025

441 CARLISLE DRIVE
SUITE C
HERNDON, VA 20170
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Background

The ST10 secondary containment was located just north of the east corner of the former Boiler House. The former caustic tank that had been in the secondary containment was used to supply the lime still in the Boiler House. The fiberglass tank had been compromised by others, prior to the purchase of the property by Riverview Innovation & Technology Campus, Inc. (RITC). A hole had been cut in the tank by the contractor to the USEPA and the contents were exposed to the atmosphere and potentially precipitation, but the contents did not appear to have overflowed the bottom of the opening. Ontario Specialty Contracting (OSC) removed the contents, decontaminated and removed the tank in 2020. The tank contents were drummed for offsite disposal as a characteristically hazardous (characteristic of corrosivity, D002) waste.

Storage Tank ST10 was managed in accordance with the Aboveground Storage Tank Management Interim Remedial Measures Work Plan ("AST Work Plan") (Inventum, 2021). The management and closure of Storage Tank ST10 is documented under the Aboveground Storage Tank Management Construction Completion Report ("AST CCR" [Inventum, August 2025]).

Inspection Summary

The ST10 secondary containment was constructed of reinforced concrete 14-feet long, 15-feet wide, and 210 square feet (nominal). The secondary containment that had surrounded the caustic tank ST10 had ruptured prior to the purchase by RITC. The break in the concrete that separated the northwest corner is shown in Photograph No. 4. White, solid, caustic material previously stored in the tank was observed in the secondary containment and outside the containment near the rupture. The secondary containment concrete was removed in May 2021.

Sub-Slab Fill Sampling

Four sub-slab fill samples were collected at two sampling locations from 0- to- 1-foot below ground surface (BGS) and 1- to- 2- feet BGS. Samples were collected with a dedicated stainless-steel spoon as field conditions allowed for direct sample collection from the sidewall. The samples consisted of black, silty, sandy gravel or coke breeze typical of the sitewide fill. The sampling locations are shown on Figure 2.

The samples were analyzed for:

- TCL Volatile Organic Compounds (VOCs) [8260]
- TCL Semi-volatile Organic Compounds (SVOCs) [8270]
- TAL Metals [6010]
- Total Mercury [7471]
- Pesticides [8081]
- Polychlorinated biphenyls (PCBs) [8082]
- Toxicity Characteristic Leachate Procedure (TCLP) VOCs, SVOCs, and Metals
- Hazardous Characterization including corrosivity, ignitability, and reactivity.

Sample results were compared to 6 NYCRR Part 375 Commercial Soil Cleanup Objectives (SCOs) and EPA TCLP limits. The sample collected from 0- to- 1- foot BGS at the northwestern corner of the secondary containment area contained the SVOC benzo(a)pyrene at a concentration of 2,260 ug/kg, exceeding the Commercial SCO of 1,000 ug/kg. The sample collected from 1- to- 2- feet BGS near the northwestern

corner did not have any analytes exceed the Commercial SCOs. The two samples collected below the southeastern corner did not have any analytes exceed the Commercial SCOs. The pH of the fill samples ranged from 10.77 to 12.14; while elevated, samples were not characteristically hazardous. The sub-slab fill analysis is presented in Table 1.

ST10 was the first secondary containment to be removed, as it was understood that there was going to be a significant amount of demolition in that area during 2021. The sub-slab fill and secondary containment concrete were removed to eliminate concerns from subcontractors working in the vicinity on the stack demolition and to eliminate any possibility that the materials could potentially be comingled with demolition debris. The removed materials were stockpiled on the northern property boundary for disposal.

Disposal Sampling

The sub-slab fill pile and concrete pile were each sampled for disposal characterization in May 2022. The ST10 fill pile was sampled for:

- TCL Volatile Organic Compounds (VOCs) [8260]
- TCL Semi-volatile Organic Compounds (SVOCs) [8270]
- TAL Metals [6010]
- Total Mercury [7471]
- Pesticides [8081] & Herbicides [8151]
- Polychlorinated biphenyls (PCBs) [8082]
- Ammonia [350.1]
- Cyanide [9012]
- Toxicity Characteristic Leachate Procedure (TCLP) VOCs, SVOCs, Metals, Pesticides, and Herbicides
- Hazardous Characterization including corrosivity and reactivity
- Paint Filter

The sample results were not characteristically hazardous and met the disposal requirements of Modern Landfill. The fill disposal analysis is presented in Table 2.

The ST10 secondary containment concrete was sampled for:

- Polychlorinated biphenyls (PCBs) [8082]
- Pesticides [8081] & Herbicides [8151]
- Toxicity Characteristic Leachate Procedure (TCLP) VOCs, SVOCs, Metals, Pesticides, and Herbicides
- Corrosivity
- Paint Filter

The sample results were not characteristically hazardous and met the disposal requirements of Modern Landfill. The concrete disposal analysis is presented in Table 3.

Sub-Slab Fill and Secondary Containment Concrete Disposal

The ST10 secondary containment concrete and sub-slab fill was profiled and approved for disposal as non-hazardous solid waste with Modern Landfill. 13.4 tons of ST10 secondary containment concrete was disposed at Modern Landfill on August 23, 2022. Two loads of ST10 sub-slab fill totaling 39.2 tons were disposed at Modern Landfill on August 24, 2022. [1].

Community Air Monitoring Plan (CAMP)

Air monitoring was performed in accordance with the Community Air Monitoring Plan (CAMP) for all dates that work was completed. Daily summary graphs of particulate and volatile organic compound (VOC) monitoring are provided in Appendix C.

Work Completed	Dates
Concrete Removal	5/13/2021
Sampling	5/17/2021
Disposal	8/23/2022, 8/24/2022

[1] The waste manifests in Attachment A were mislabeled “ST08” and should reference “ST10.”

Engineering Certification

I, John P. Black, certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Construction Completion Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and DER Green Remediation (DER-31) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

Respectfully Submitted,

Inventum Engineering, P.C.

John P. Black, P.E.

Date: October 21, 2025

License No: 062818-1

Seal

It is a violation of the laws of New York for any person, unless acting under the direction of a Licensed Professional Engineer, to alter any item or any portion of this document in any way. If an item bearing the seal of a Licensed Professional Engineer is altered, the altering Engineer shall affix to the item his/her seal and notation "altered by" followed by his/her signature and the date of such alternation, and a specific description of the alteration.

Photographic Log

Client Name: RITC	Date Photo was Taken: 10/8/2019	Project: RITC
Photo No. 1 **Direction Photo Taken:** View is south. **Description:** Former caustic tank ST10 and the north outer wall of the secondary containment.		

Client Name: RITC	Date Photo was Taken: 10/8/2019	Project: RITC
Photo No. 2 **Direction Photo Taken:** View is west. **Description:** Former caustic tank ST10 and inside of secondary containment.		

Client Name: RITC	Date Photo was Taken: 10/8/2019	Project: RITC
Photo No. 3 **Direction Photo Taken:** View is west. **Description:** The interior northwest corner was cracked along the corner seam.		

Client Name: RITC	Date Photo was Taken: 10/8/2019	Project: RITC
Photo No. 4 **Direction Photo Taken:** View is southwest. **Description:** The exterior northwest corner had a break in the secondary containment.		

Client Name: RITC	Date Photo was Taken: 5/17/2021	Project: RITC
Photo No. 5 **Direction Photo Taken:** View is south. **Description:** Soil samples are collected after the secondary containment is removed.		

Client Name: RITC	Date Photo was Taken: 5/17/2021	Project: RITC
Photo No. 6 **Direction Photo Taken:** View is east. **Description:** Soil samples are collected after the secondary containment is removed.		

Figures

N

50 0 25 50 100 200

1 INCH = 50 FEET (22X34)

D

DRAWING BY	RB
CHECKED	
APPROVED	

SECONDARY CONTAINMENT LOCATIONS
RIVERVIEW INNOVATION & TECHNOLOGY CAMPUS, INC.
3875 RIVER ROAD
TONAWANDA, NEW YORK 14150
BCP SITE No. C915353

INVENTUM ENGINEERING
441 CARLISLE DRIVE
SUITE C
HERNDON, VIRGINIA 20170
(703) 722-6049
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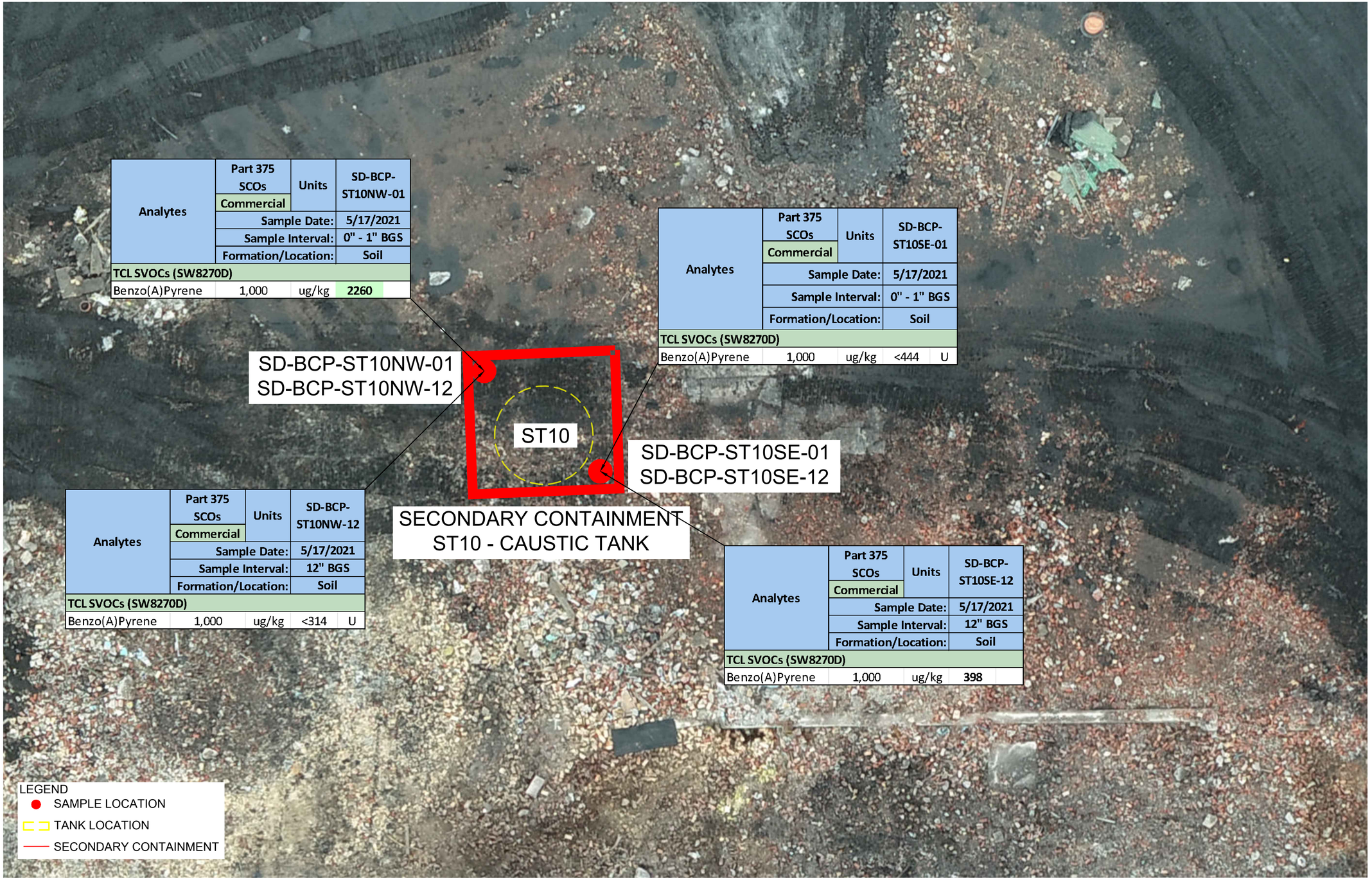
FIGURE 1

DRAWING NUMBER
SECONDARY CONTAINMENT CLOSURE CCR



Analytes	Part 375 SCOs Commercial	Units	SD-BCP-ST10NW-01	
	Sample Date:		5/17/2021	
	Sample Interval:		0" - 1" BGS	
	Formation/Location:		Soil	
TCL SVOCs (SW8270D)				
Benzo(A)Pyrene	1,000	ug/kg	2260	

Analytes	Part 375 SCOs Commercial	Units	SD-BCP-ST10SE-01	
	Sample Date:		5/17/2021	
	Sample Interval:		0" - 1" BGS	
	Formation/Location:		Soil	
TCL SVOCs (SW8270D)				
Benzo(A)Pyrene	1,000	ug/kg	<444	U

Analytes	Part 375 SCOs Commercial	Units	SD-BCP-ST10NW-12	
	Sample Date:		5/17/2021	
	Sample Interval:		12" BGS	
	Formation/Location:		Soil	
TCL SVOCs (SW8270D)				
Benzo(A)Pyrene	1,000	ug/kg	<314	U

Analytes	Part 375 SCOs Commercial	Units	SD-BCP-ST10SE-12
	Sample Date:		5/17/2021
	Sample Interval:		12" BGS
	Formation/Location:		Soil
TCL SVOCs (SW8270D)			
Benzo(A)Pyrene	1,000	ug/kg	398

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5 0 2.5 5 10 20
1 INCH = 5 FEET

DRAWING BY RB
CHECKED
APPROVED

ST10 - CAUSTIC TANK SECONDARY CONTAINMENT SAMPLING
RIVERVIEW INNOVATION & TECHNOLOGY CAMPUS, INC.
3875 RIVER ROAD
TONAWANDA, NEW YORK 14150
BCP SITE No. C915353

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FIGURE 2

DRAWING NUMBER
SECONDARY CONTAINMENT CLOSURE CCR

Tables

Table 1
Secondary Containment Closure Construction Completion Report
Former Caustic Tank ST10 Sub-Slab Soils
Riverview Innovation & Technology Campus, Inc.,
Tonawanda, New York

Analytes	Part 375 SCOs Commercial	Units	SD-BCP-ST10SE-01		SD-BCP-ST10SE-12		SD-BCP-ST10NW-01		SD-BCP-ST10NW-12	
	Sample Date:		5/17/2021		5/17/2021		5/17/2021		5/17/2021	
	Sample Interval:		0 - 1' BGS		1-2' BGS		0 - 1' BGS		1-2' BGS	
	Report:		212155		212155		212155		212155	
	Formation/Location:		Soil		Soil		Soil		Soil	
VOLATILE ORGANICS BY GC/MS										
1,1,1-Trichloroethane (TCA)	500,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
1,1,2,2-Tetrachloroethane		ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
1,1,2-Trichloroethane		ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
1,1-Dichloroethane	240,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
1,1-Dichloroethene	500,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
1,2,3-Trichlorobenzene		ug/kg	<23.7	U	<20.7	U	<19.5	U	<18.0	U
1,2,4-Trichlorobenzene		ug/kg	<23.7	U	<20.7	U	<19.5	U	<18.0	U
1,2,4-Trimethylbenzene	190,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
1,2-Dibromo-3-Chloropropane		ug/kg	<47.4	U	<41.4	U	<39.0	U	<36.1	U
1,2-Dibromoethane		ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
1,2-Dichlorobenzene	500,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
1,2-Dichloroethane	30,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
1,2-Dichloropropane		ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
1,3-Dichlorobenzene	280,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
1,3,5-Trimethylbenzene	190,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
1,4-Dichlorobenzene	130,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
1,4-Dioxane (P-Dioxane)	130,000	ug/kg	<47.4	U	<41.4	U	<39.0	U	<36.1	U
Methyl Ethyl Ketone (2-Butanone)	500,000	ug/kg	<47.4	U	<41.4	U	<39.0	U	<36.1	U
2-Hexanone		ug/kg	<23.7	U	<20.7	U	<19.5	U	<18.0	U
4-Isopropyltoluene	390,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
4-Methyl-2-Pentanone		ug/kg	<23.7	U	<20.7	U	<19.5	U	<18.0	U
Acetone	500,000	ug/kg	<47.4	U	<41.4	U	<39.0	U	<36.1	U
Benzene	44,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Bromochloromethane		ug/kg	<23.7	U	<20.7	U	<19.5	U	<18.0	U
Bromodichloromethane		ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Bromoform		ug/kg	<23.7	U	<20.7	U	<19.5	U	<18.0	U
Bromomethane		ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Carbon Disulfide		ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Carbon Tetrachloride	22,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Chlorobenzene	500,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Chloroethane		ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Chloroform	350,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Chloromethane		ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Cyclohexane		ug/kg	<47.4	U	<41.4	U	<39.0	U	<36.1	U
Dibromochloromethane		ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Dichlorodifluoromethane		ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Methylene Chloride	500,000	ug/kg	<23.7	U	<20.7	U	<19.5	U	<18.0	U
Ethylbenzene	390,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Isopropylbenzene (Cumene)		ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Methyl Acetate		ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Methyl Tert-Butyl Ether	500,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Methylcyclohexane		ug/kg	**9.48**		<8.27	U	<7.80	U	<7.22	U
Naphthalene	500,000	ug/kg	<23.7	U	<20.7	U	<19.5	U	<18.0	U
n-Butylbenzene	390,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
N-Propylbenzene	500,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Sec-Butylbenzene	390,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Styrene		ug/kg	<23.7	U	<20.7	U	<19.5	U	<18.0	U
Tert-Butylbenzene	390,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Tetrachloroethene	150,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Toluene	500,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Trichloroethene	200,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Trichlorofluoromethane		ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Vinyl Chloride	13,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Cis-1,2-Dichloroethylene	500,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Cis-1,3-Dichloropropene		ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
m,p-Xylene	500,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
O-Xylene (1,2-Dimethylbenzene)	500,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Trans-1,2-Dichloroethene	500,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Trans-1,3-Dichloropropene		ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Freon 113		ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
Xylenes, Total	500,000	ug/kg	<9.47	U	<8.27	U	<7.80	U	<7.22	U
SEMIVOLATILE ORGANICS BY GC/MS										
1,1-Biphenyl		ug/kg	<444	U	<339	U	<326	U	<314	U
1,2,4-Trichlorobenzene		ug/kg	<444	U	<339	U	<326	U	<314	U
1,2-Dichlorobenzene		ug/kg	<444	U	<339	U	<326	U	<314	U
1,3-Dichlorobenzene		ug/kg	<444	U	<339	U	<326	U	<314	U
1,4-Dichlorobenzene		ug/kg	<444	U	<339	U	<326	U	<314	U
2,2-Oxybis (1-chloropropane)		ug/kg	<444	U	<339	U	<326	U	<314	U
3&4-Methylphenol		ug/kg	<444	U	<339	U	<326	U	<314	U
1,2,4,5-Tetrachlorobenzene		ug/kg	<444	U	<339	U	<326	U	<314	U
2,3,4,6-Tetrachlorophenol		ug/kg	<444	U	<339	U	<326	U	<314	U
2,4,5-Trichlorophenol		ug/kg	<444	U	<339	U	<326	U	<314	U
2,4,6-Trichlorophenol		ug/kg	<444	U	<339	U	<326	U	<314	U
2,4-Dichlorophenol		ug/kg	<444	U	<339	U	<326	U	<314	U
2,4-Dimethylphenol		ug/kg	<444	U	<339	U	<326	U	<314	U
2,4-Dinitrophenol		ug/kg	<1780	U	<1350	U	<1300	U	<1260	U
2,4-Dinitrotoluene		ug/kg	<444	U	<339	U	<326	U	<314	U
2,6-Dinitrotoluene		ug/kg	<444	U	<339	U	<326	U	<314	U
2-Chloronaphthalene		ug/kg	<444	U	<339	U	<326	U	<314	U
2-Chlorophenol		ug/kg	<444	U	<339	U	<326	U	<314	U
2-Methylnaphthalene		ug/kg	<444	U	<339	U	**529**		<314	U
2-Methylphenol (O-Cresol)	500,000	ug/kg	<444	U	<339	U	<326	U	<314	U
2-Nitroaniline		ug/kg	<444	U	<339	U	<326	U	<314	U
2-Nitrophenol		ug/kg	<444	U	<339	U	<326	U	<314	U
3,3'-Dichlorobenzidine		ug/kg	<444	U	<339	U	<326	U	<314	U
Cresols, M & P	500,000	ug/kg	NS		NS		NS		NS	
3-Nitroaniline		ug/kg	<444	U	<339	U	<326		<314	U
4,6-Dinitro-2-Methylphenol		ug/kg	<595	U	<453	U	<436	U	<421	U
4-Bromophenyl Phenyl Ether		ug/kg	<444	U	<339	U	<326	U	<314	U
4-Chloro-3-Methylphenol		ug/kg	<444	U	<339	U	<326	U	<314	U
4-Chloroaniline		ug/kg	<444	U	<339	U	<326	U	<314	U
4-Chlorophenyl Phenyl Ether		ug/kg	<444	U	<339	U	<326	U	<314	U
4-Nitroaniline		ug/kg	<444	U	<339	U	<326	U	<314	U
4-Nitrophenol		ug/kg	<444	U	<339	U	<326	U	<314	U
Acenaphthene	500,000	ug/kg	<444	U	<339	U	<326	U	<314	U
Acenaphthylene	500,000	ug/kg	<444	U	<339	U	**367**		<314	U

Table 1
Secondary Containment Closure Construction Completion Report
Former Caustic Tank ST10 Sub-Slab Soils
Riverview Innovation & Technology Campus, Inc.,
Tonawanda, New York

Analytes	Part 375 SCOs Commercial	Units	SD-BCP-ST10SE-01		SD-BCP-ST10SE-12		SD-BCP-ST10NW-01		SD-BCP-ST10NW-12	
Sample Date:			5/17/2021		5/17/2021		5/17/2021		5/17/2021	
Sample Interval:			0 - 1' BGS		1-2' BGS		0 - 1' BGS		1-2' BGS	
Report:			212155		212155		212155		212155	
Formation/Location:			Soil		Soil		Soil		Soil	
Acetophenone		ug/kg	<444	U	<339	U	<326	U	<314	U
Anthracene	500,000	ug/kg	<444	U	<339	U	**708**		<314	U
Atrazine		ug/kg	<444	U	<339	U	<326	U	<314	U
Benzo(A)Anthracene	5,600	ug/kg	<444	U	**430**		**2110**		<314	U
Benzaldehyde		ug/kg	<444	U	<339	U	<326	U	<314	U
Benzo(A)Pyrene	1,000	ug/kg	<444	U	**398**		**2260**		<314	U
Benzo(B)Fluoranthene	5,600	ug/kg	<444	U	**424**		**2980**		<314	U
Benzo(G,H,I)Perylene	500,000	ug/kg	<444	U	<339	U	**1710**		<314	U
Benzo(K)Fluoranthene	56,000	ug/kg	<444	U	<339	U	**1300**		<314	U
Biphenyl (Diphenyl)		ug/kg	NS		NS		NS		NS	
Bis(2-Chloroisopropyl) Ether		ug/kg	NS		NS		NS		NS	
Bis(2-Chloroethoxy) Methane		ug/kg	<444	U	<339	U	<326	U	<314	U
Bis(2-Chloroethyl) Ether		ug/kg	<444	U	<339	U	<326	U	<314	U
Bis(2-Ethylhexyl) Phthalate		ug/kg	<444	U	<339	U	<326	U	<314	U
Benzyl Butyl Phthalate		ug/kg	<444	U	<339	U	<326	U	<314	U
Caprolactam		ug/kg	<444	U	<339	U	<326	U	<314	U
Carbazole		ug/kg	<444	U	<339	U	<326	U	<314	U
Chrysene	56,000	ug/kg	<444	U	**541**		**2710**		<314	U
Di-N-Butyl Phthalate		ug/kg	<444	U	<339	U	<326	U	<314	U
Di-N-Octylphthalate		ug/kg	<444	U	<339	U	<326	U	<314	U
Dibenz(A,H)Anthracene	560	ug/kg	<444	U	<339	U	**493**		<314	U
Dibenzofuran	350,000	ug/kg	<444	U	<339	U	**336**		<314	U
Diethyl Phthalate		ug/kg	<444	U	<339	U	<326	U	<314	U
Dimethyl Phthalate		ug/kg	<444	U	<339	U	<326	U	<314	U
Fluoranthene	500,000	ug/kg	**463**		**919**		**3610**		<314	U
Fluorene	500,000	ug/kg	<444	U	<339	U	<326	U	<314	U
Hexachlorobenzene	6,000	ug/kg	<444	U	<339	U	<326	U	<314	U
Hexachlorobutadiene		ug/kg	<444	U	<339	U	<326	U	<314	U
Hexachlorocyclopentadiene		ug/kg	<1780	U	<1350	U	<1300	U	<1260	U
Hexachloroethane		ug/kg	<444	U	<339	U	<326	U	<314	U
Indeno(1,2,3-C,D)Pyrene	5,600	ug/kg	<444	U	**343**		**1720**		<314	U
Isophorone		ug/kg	<444	U	<339	U	<326	U	<314	U
N-Nitrosodi-N-Propylamine		ug/kg	<444	U	<339	U	<326	U	<314	U
N-Nitrosodiphenylamine		ug/kg	<444	U	<339	U	<326	U	<314	U
Naphthalene	500,000	ug/kg	<444	U	<339	U	**1060**		<314	U
Nitrobenzene		ug/kg	<444	U	<339	U	<326	U	<314	U
Pentachlorophenol	6,700	ug/kg	<889	U	<677	U	<651	U	<629	U
Phenanthrene	500,000	ug/kg	<444	U	**522**		**2220**		<314	U
Phenol	500,000	ug/kg	<444	U	<339	U	<326	U	<314	U
Pyrene	500,000	ug/kg	<444	U	**782**		**2920**		<314	U
TAL Metals (SW6010)										
Aluminum		mg/kg	**4430**		**16800**		**4240**		**13600**	
Antimony		mg/kg	<4.61	U	<3.94	U	<3.40	U	<3.37	M
Arsenic	16	mg/kg	**1.34**		**1.07**		**7.87**		**3.34**	
Barium	400	mg/kg	**124**		**114**		**68.3**		**88.6**	
Beryllium	590	mg/kg	**0.464**		**0.335**		**0.439**		<0.281	U
Cadmium	9.3	mg/kg	<0.384	U	<0.329	U	<0.283	U	<0.281	M
Calcium		mg/kg	**8630**		**78800**		**7630**		**64000**	
Chromium, Total		mg/kg	**20.5**		**19.8**		**13.5**		**17.5**	
Cobalt		mg/kg	**8.3**		**8.87**		**6.36**		**8.38**	
Copper	270	mg/kg	**25.9**		**18.2**		**31.2**		**15.6**	
Iron		mg/kg	**17100**		**24600**		**17100**		**25700**	
Lead	1,000	mg/kg	**12.4**		**8.46**		**23.3**		**9.21**	M
Magnesium		mg/kg	**761**		**15700**		**1150**		**13700**	
Manganese	10,000	mg/kg	**182**		**475**		**233**		**460**	M
Nickel	310	mg/kg	**23.6**		**19.5**		**14.6**		**18.6**	M
Potassium		mg/kg	<192	U	**4000**		**491**		**3760**	M
Selenium	1,500	mg/kg	<1.54	U	<1.31	U	**1.62**		<1.12	U
Silver	1,500	mg/kg	<0.768	U	<0.657	U	<0.567	U	<0.562	U
Sodium		mg/kg	**1580**		**5150**		**2660**		**3440**	
Thallium		mg/kg	<1.92	U	<1.64	U	<1.42	U	<1.41	M
Vanadium		mg/kg	**15.5**		**24.4**		**13.8**		**22.8**	
Zinc	10,000	mg/kg	**210**		**96.6**		**47.3**		**58.1**	
Mercury (SW7471)										
Mercury	2.8	mg/kg	**0.0223**		**0.0154**		**0.0926**		**0.0316**	
PCBs (8082A)										
PCB-1016 (Aroclor 1016)	1000	ug/kg	<43	U	<37.7	U	<33.4	U	<30.3	U
PCB-1221 (Aroclor 1221)	1000	ug/kg	<43	U	<37.7	U	<33.4	U	<30.3	U
PCB-1232 (Aroclor 1232)	1000	ug/kg	<43	U	<37.7	U	<33.4	U	<30.3	U
PCB-1242 (Aroclor 1242)	1000	ug/kg	<43	U	<37.7	U	<33.4	U	<30.3	U
PCB-1248 (Aroclor 1248)	1000	ug/kg	<43	U	<37.7	U	<33.4	U	<30.3	U
PCB-1254 (Aroclor 1254)	1000	ug/kg	<43	U	<37.7	U	<33.4	U	<30.3	U
PCB-1260 (Aroclor 1260)	1000	ug/kg	<43	U	<37.7	U	<33.4	U	<30.3	U
PCB-1262 (Aroclor 1262)		ug/kg	<43	U	<37.7	U	<33.4	U	<30.3	U
PCB-1268 (Aroclor 1268)		ug/kg	<43	U	<37.7	U	<33.4	U	<30.3	U

Table 1
Secondary Containment Closure Construction Completion Report
Former Caustic Tank ST10 Sub-Slab Soils
Riverview Innovation & Technology Campus, Inc.,
Tonawanda, New York

Analytes	Part 375 SCOs Commercial	Units	SD-BCP-ST10SE-01		SD-BCP-ST10SE-12		SD-BCP-ST10NW-01		SD-BCP-ST10NW-12	
Sample Date:			5/17/2021		5/17/2021		5/17/2021		5/17/2021	
Sample Interval:			0 - 1' BGS		1-2' BGS		0 - 1' BGS		1-2' BGS	
Report:			212155		212155		212155		212155	
Formation/Location:			Soil		Soil		Soil		Soil	
Pesticides (8081B)										
4,4-DDD	92,000	ug/kg	<4.30	U	<3.77	U	<3.34	U	<3.03	U
4,4-DDE	62,000	ug/kg	<4.30	U	<3.77	U	<3.34	U	<3.03	U
4,4-DDT	47,000	ug/kg	<4.30	U	<3.77	U	<3.34	U	<3.03	U
Aldrin	680	ug/kg	<4.30	U	<3.77	U	<3.34	U	<3.03	U
Dieldrin	1,400	ug/kg	<4.30	U	<3.77	U	<3.34	U	<3.03	U
Endosulfan I	200,000	ug/kg	<4.30	U	<3.77	U	<3.34	U	<3.03	U
Endosulfan II	200,000	ug/kg	<4.30	U	<3.77	U	<3.34	U	<3.03	U
Endosulfan Sulfate	200,000	ug/kg	<4.30	U	<3.77	U	**3.39**	P	<3.03	U
Endrin	89,000	ug/kg	<4.30	U	<3.77	U	**3.75**		<3.03	U
Endrin Aldehyde		ug/kg	<4.30	U	<3.77	U	<3.34	U	<3.03	U
Endrin Ketone		ug/kg	<4.30	U	<3.77	U	**4.35**	P	<3.03	U
Heptachlor	15,000	ug/kg	<4.30	U	<3.77	U	<3.34	U	<3.03	U
Heptachlor Epoxide		ug/kg	<4.30	U	<3.77	U	<3.34	U	<3.03	U
Methoxychlor		ug/kg	<4.30	U	<3.77	U	**10.1**	P	<3.03	U
Toxaphene		ug/kg	<43.0	U	<37.7	U	<33.4	U	<30.3	U
Alpha BHC	3,400	ug/kg	<4.30	U	<3.77	U	<3.34	U	<3.03	U
cis-Chlordane	24,000	ug/kg	<4.30	U	<3.77	U	<3.34	U	<3.03	U
Beta BHC	3,000	ug/kg	<4.30	U	<3.77	U	<3.34	U	<3.03	U
Delta BHC	500,000	ug/kg	<4.30	U	<3.77	U	<3.34	U	<3.03	U
Gamma Bhc (Lindane)	9,200	ug/kg	<4.30	U	<3.77	U	<3.34	U	<3.03	U
Trans-Chlordane		ug/kg	<4.30	U	<3.77	U	<3.34	U	<3.03	U
Herbicides (SW8151A)										
Acetic acid, (2,4,5-trichlorophenoxy)-		ug/kg	NS		NS		NS		NS	
Silvex (2,4,5-TP)	500,000	ug/kg	NS		NS		NS		NS	
2,4-D (Dichlorophenoxyacetic Acid)		ug/kg	NS		NS		NS		NS	
Dicamba		ug/kg	NS		NS		NS		NS	
Corrosivity as pH										
Corrosivity (as pH)		S.U.	**11.16**		**12.14**		**10.77**		**11.72**	
Ignitability										
Ignitability		mm/sec	No Burn		No Burn		No Burn		No Burn	
Reactive Cyanide										
Reactivity, Cyanide		mg/kg	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Reactive Sulfide										
Reactivity, Sulfide		mg/kg	<10	U	<10	U	**16**		**160**	
EPA TCLP										
TCLP Volatile Organics										
1,1-Dichloroethene	700	ug/l	<20.0	U	<20.0	U	<20.0	U	<20.0	U
1,2-Dichloroethane	500	ug/l	<20.0	U	<20.0	U	<20.0	U	<20.0	U
2-Butanone	200,000	ug/l	<100	U	<100	U	<100	U	<100	U
Benzene	500	ug/l	<20.0	U	<20.0	U	<20.0	U	<20.0	U
Carbon Tetrachloride	500	ug/l	<20.0	U	<20.0	U	<20.0	U	<20.0	U
Chlorobenzene	100,000	ug/l	<20.0	U	<20.0	U	<20.0	U	<20.0	U
Chloroform	6,000	ug/l	<20.0	U	<20.0	U	<20.0	U	<20.0	U
Tetrachloroethene	700	ug/l	<20.0	U	<20.0	U	<20.0	U	<20.0	U
Trichloroethene	500	ug/l	<20.0	U	<20.0	U	<20.0	U	<20.0	U
Vinyl chloride	200	ug/l	<20.0	U	<20.0	U	<20.0	U	<20.0	U
TCLP Semi-Volatile Organics										
2,4,5-Trichlorophenol	400,000	ug/l	<40.0	U	<40.0	U	<40.0	U	<40.0	U
2,4,6-Trichlorophenol	2,000	ug/l	<40.0	U	<40.0	U	<40.0	U	<40.0	U
2,4-Dinitrotoluene	130	ug/l	<40.0	U	<40.0	U	<40.0	U	<40.0	U
Cresols (as m,p,o-Cresol)	200,000	ug/l	<80.0	U	<80.0	U	<80.0	U	<80.0	U
Hexachlorobenzene	130	ug/l	<40.0	U	<40.0	U	<40.0	U	<40.0	U
Hexachlorobutadiene	500	ug/l	<40.0	U	<40.0	U	<40.0	U	<40.0	U
Hexachloroethane	3,000	ug/l	<40.0	U	<40.0	U	<40.0	U	<40.0	U
Nitrobenzene	2,000	ug/l	<40.0	U	<40.0	U	<40.0	U	<40.0	U
Pentachlorophenol	100,000	ug/l	<80.0	U	<80.0	U	<80.0	U	<80.0	U
Pyridine	5,000	ug/l	<40.0	U	<40.0	U	<40.0	U	<40.0	U
TCLP Mercury										
Mercury	0.2	mg/l	<0.00200	U	<0.00200	U	<0.00200	U	<0.00200	U
TCLP RCRA Metals (ICP)										
Arsenic	5	mg/l	<0.500	U	<0.500	U	<0.500	U	<0.500	U
Barium	100	mg/l	**1.95**		**0.844**		**0.569**		**0.672**	
Cadmium	1	mg/l	<0.0250	U	<0.0250	U	<0.0250	U	<0.0250	U
Chromium	5	mg/l	<0.500	U	<0.500	U	<0.500	U	<0.500	U
Lead	5	mg/l	<0.500	U	<0.500	U	<0.500	U	<0.500	U
Selenium	1	mg/l	<0.200	U	<0.200	U	<0.200	U	<0.200	U
Silver	5	mg/l	<0.500	U	<0.500	U	<0.500	U	<0.500	U

Qualifiers:
U - Not detected at the reported detection limit for the sample.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Compound was found in the blank and sample.
HF - Analyzed outside of hold time.
Bold - Compound is detected
Green Highlight - Exceeds NYS Part 375 Commercial SCOs
Yellow Highlight - Exceeds EPA Toxicity Characteristic Regulatory Levels

Table 2
Secondary Containment Closure Construction Completion Report
ST10 Sub-Slab Soil Data (Disposal)
Riverview Innovation & Technology Campus, Inc.
Tonawanda, New York

ANALYTES		SAMPLE ID:	ST10-SOIL-05132022	
		LAB ID:	222262	
		COLLECTION DATE:	5/13/2022	
		SAMPLE DEPTH:	NA	
		SAMPLE MATRIX:	SOIL	
	EPA TCLP	UNITS	ST10 Soil Pile	
VOCs (SW8260C)				
1,1,1-Trichloroethane (TCA)		ug/kg	<9.71	U
1,1,2,2-Tetrachloroethane		ug/kg	<9.71	U
1,1,2-Trichloroethane		ug/kg	<9.71	U
1,1,2-Trichloro-1,2,2-Trifluoroethane		ug/kg	<9.71	U
1,1-Dichloroethane		ug/kg	<9.71	U
1,1-Dichloroethene		ug/kg	<9.71	U
1,2,3-Trichlorobenzene		ug/kg	<24.3	U
1,2,4-Trichlorobenzene		ug/kg	<24.3	U
1,2,4-Trimethylbenzene		ug/kg	<9.71	U
1,2-Dibromo-3-Chloropropane		ug/kg	<48.5	U
1,2-Dibromoethane (Ethylene Dibromide)		ug/kg	<9.71	U
1,2-Dichlorobenzene		ug/kg	<9.71	U
1,2-Dichloroethane		ug/kg	<9.71	U
1,2-Dichloropropane		ug/kg	<9.71	U
1,3-Dichlorobenzene		ug/kg	<9.71	U
1,3,5-Trimethylbenzene		ug/kg	<9.71	U
1,4-Dichlorobenzene		ug/kg	<9.71	U
1,4-Dioxane (P-Dioxane)		ug/kg	<48.5	U
Methyl Ethyl Ketone (2-Butanone)		ug/kg	<48.5	U
2-Hexanone		ug/kg	<24.3	U
4-Isopropylbenzene/p-Isopropylbenzene		ug/kg	<9.71	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		ug/kg	<24.3	U
Acetone		ug/kg	<48.5	U
Benzene		ug/kg	<9.71	U
Bromochloromethane		ug/kg	<24.3	U
Bromodichloromethane		ug/kg	<9.71	U
Bromoform		ug/kg	<24.3	U
Bromomethane		ug/kg	<9.71	U
Carbon Disulfide		ug/kg	<9.71	U
Carbon Tetrachloride		ug/kg	<9.71	U
Chlorobenzene		ug/kg	<9.71	U
Chloroethane		ug/kg	<9.71	U
Chloroform		ug/kg	<9.71	U
Chloromethane		ug/kg	<9.71	U
Cyclohexane		ug/kg	<48.5	U
Dibromochloromethane		ug/kg	<9.71	U
Dichlorodifluoromethane		ug/kg	<9.71	U

Table 2
Secondary Containment Closure Construction Completion Report
ST10 Sub-Slab Soil Data (Disposal)
Riverview Innovation & Technology Campus, Inc.
Tonawanda, New York

ANALYTES		SAMPLE ID:	ST10-SOIL-05132022	
		LAB ID:	222262	
		COLLECTION DATE:	5/13/2022	
		SAMPLE DEPTH:	NA	
		SAMPLE MATRIX:	SOIL	
	EPA TCLP	UNITS	ST10 Soil Pile	
Methylene Chloride		ug/kg	<24.3	U
Ethylbenzene		ug/kg	<9.71	U
Isopropylbenzene (Cumene)		ug/kg	<9.71	U
Methyl Acetate		ug/kg	<9.71	U
Tert-Butyl Methyl Ether		ug/kg	<9.71	U
m-Xylene & p-Xylene		ug/kg	<9.71	U
Methylcyclohexane		ug/kg	<9.71	U
Naphthalene		ug/kg	<24.3	U
n-Butylbenzene		ug/kg	<9.71	U
N-Propylbenzene		ug/kg	<9.71	U
Styrene		ug/kg	<24.3	U
sec-Butylbenzene		ug/kg	<9.71	U
tert-Butylbenzene		ug/kg	<9.71	U
Tetrachloroethylene (PCE)		ug/kg	<9.71	U
Toluene		ug/kg	<9.71	U
Trichloroethylene (TCE)		ug/kg	<9.71	U
Trichlorofluoromethane		ug/kg	<9.71	U
Vinyl Chloride		ug/kg	<9.71	U
Cis-1,2-Dichloroethylene		ug/kg	<9.71	U
Cis-1,3-Dichloropropene		ug/kg	<9.71	U
m,p-Xylene		ug/kg	<9.71	U
O-Xylene (1,2-Dimethylbenzene)		ug/kg	<9.71	U
Trans-1,2-Dichloroethene		ug/kg	<9.71	U
Trans-1,3-Dichloropropene		ug/kg	<9.71	U
xylenes, total		ug/kg	<9.71	U
SVOCs (SW8270D)				
1,2,4,5-Tetrachlorobenzene		ug/kg	<1710	U
2,3,4,6-Tetrachlorophenol		ug/kg	<1710	U
2,4,5-Trichlorophenol		ug/kg	<1710	U
2,4,6-Trichlorophenol		ug/kg	<1710	U
2,4-Dichlorophenol		ug/kg	<1710	U
2,4-Dimethylphenol		ug/kg	<1710	U
2,4-Dinitrophenol		ug/kg	<6850	U
2,4-Dinitrotoluene		ug/kg	<1710	U
2,6-Dinitrotoluene		ug/kg	<1710	U
2-Chloronaphthalene		ug/kg	<1710	U
2-Chlorophenol		ug/kg	<1710	U

Table 2
Secondary Containment Closure Construction Completion Report
ST10 Sub-Slab Soil Data (Disposal)
Riverview Innovation & Technology Campus, Inc.
Tonawanda, New York

ANALYTES		SAMPLE ID:	ST10-SOIL-05132022	
		LAB ID:	222262	
		COLLECTION DATE:	5/13/2022	
		SAMPLE DEPTH:	NA	
		SAMPLE MATRIX:	SOIL	
	EPA TCLP	UNITS	ST10 Soil Pile	
2-Methylnaphthalene		ug/kg	<1710	U
2-Methylphenol (O-Cresol)		ug/kg	<1710	U
2-Nitroaniline		ug/kg	<1710	U
2-Nitrophenol		ug/kg	<1710	U
3,3'-Dichlorobenzidine		ug/kg	<1710	U
Cresols, M & P		ug/kg	<1710	U
3-Nitroaniline		ug/kg	<1710	U
4,6-Dinitro-2-Methylphenol		ug/kg	<2290	U
4-Bromophenyl Phenyl Ether		ug/kg	<1710	U
4-Chloro-3-Methylphenol		ug/kg	<1710	U
4-Chloroaniline		ug/kg	<1710	U
4-Chlorophenyl Phenyl Ether		ug/kg	<1710	U
4-Nitroaniline		ug/kg	<1710	U
4-Nitrophenol		ug/kg	<1710	U
Acenaphthene		ug/kg	<1710	U
Acenaphthylene		ug/kg	<1710	U
Acetophenone		ug/kg	<1710	U
Anthracene		ug/kg	**2270**	
Atrazine		ug/kg	<1710	U
Benzo(A)Anthracene		ug/kg	**11400**	
Benzaldehyde		ug/kg	<1710	U
Benzo(A)Pyrene		ug/kg	**11000**	
Benzo(B)Fluoranthene		ug/kg	**11500**	
Benzo(G,H,I)Perylene		ug/kg	**6980**	
Benzo(K)Fluoranthene		ug/kg	**6590**	
Biphenyl (Diphenyl)		ug/kg	NA	
Bis(2-Chloroisopropyl) Ether		ug/kg	NA	
Bis(2-Chloroethoxy) Methane		ug/kg	<1710	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)		ug/kg	<1710	U
Bis(2-Ethylhexyl) Phthalate		ug/kg	<1710	U
Benzyl Butyl Phthalate		ug/kg	<1710	U
Caprolactam		ug/kg	<1710	U
Carbazole		ug/kg	<1710	U
Chrysene		ug/kg	**13700**	
Di-N-Butyl Phthalate		ug/kg	<1710	U
Di-N-Octylphthalate		ug/kg	<1710	U
Dibenz(A,H)Anthracene		ug/kg	**3250**	
Dibenzofuran		ug/kg	<1710	U

Table 2
Secondary Containment Closure Construction Completion Report
ST10 Sub-Slab Soil Data (Disposal)
Riverview Innovation & Technology Campus, Inc.
Tonawanda, New York

ANALYTES		SAMPLE ID:	ST10-SOIL-05132022	
		LAB ID:	222262	
		COLLECTION DATE:	5/13/2022	
		SAMPLE DEPTH:	NA	
		SAMPLE MATRIX:	SOIL	
	EPA TCLP	UNITS	ST10 Soil Pile	
Diethyl Phthalate		ug/kg	<1710	U
Dimethyl Phthalate		ug/kg	<1710	U
Fluoranthene		ug/kg	**2440**	
Fluorene		ug/kg	<1710	U
Hexachlorobenzene		ug/kg	<1710	U
Hexachlorobutadiene		ug/kg	<1710	U
Hexachlorocyclopentadiene		ug/kg	<6850	U
Hexachloroethane		ug/kg	<1710	U
Indeno(1,2,3-C,D)Pyrene		ug/kg	**9690**	
Isophorone		ug/kg	<1710	U
N-Nitrosodi-N-Propylamine		ug/kg	<1710	U
N-Nitrosodiphenylamine		ug/kg	<1710	U
Naphthalene		ug/kg	**2570**	
Nitrobenzene		ug/kg	<1710	U
Pentachlorophenol		ug/kg	<3430	U
Phenanthrene		ug/kg	**10500**	
Phenol		ug/kg	<1710	U
Pyrene		ug/kg	**20900**	
TAL Metals (SW6010)				
Aluminum		ug/g	**2080**	
Antimony		ug/g	**4.41**	
Arsenic		ug/g	**22.7**	
Barium		ug/g	**35.8**	
Beryllium		ug/g	<0.250	U
Cadmium		ug/g	**14.5**	
Calcium		ug/g	**26000**	
Chromium, Total		ug/g	**106**	
Cobalt		ug/g	**5.56**	
Copper		ug/g	**87.0**	
Iron		ug/g	**87200**	
Lead		ug/g	**37.4**	
Magnesium		ug/g	**5960**	
Manganese		ug/g	**444**	
Nickel		ug/g	**33.4**	
Potassium		ug/g	**1020**	
Selenium		ug/g	<0.250	U
Silver		ug/g	<1.00	U

Table 2
Secondary Containment Closure Construction Completion Report
ST10 Sub-Slab Soil Data (Disposal)
Riverview Innovation & Technology Campus, Inc.
Tonawanda, New York

ANALYTES	SAMPLE ID:		ST10-SOIL-05132022	
	LAB ID:		222262	
	COLLECTION DATE:		5/13/2022	
	SAMPLE DEPTH:		NA	
	SAMPLE MATRIX:		SOIL	
	EPA TCLP	UNITS	ST10 Soil Pile	
Sodium		ug/g	**4890**	
Thallium		ug/g	<0.500	U
Vanadium		ug/g	<2.50	U
Zinc		ug/g	**78.4**	
Mercury (SW7471)				
Mercury		mg/kg	**0.398**	
PCBs (8082A)				
PCB-1016 (Aroclor 1016)		mg/kg	<0.185	U
PCB-1221 (Aroclor 1221)		mg/kg	<0.185	U
PCB-1232 (Aroclor 1232)		mg/kg	<0.185	U
PCB-1242 (Aroclor 1242)		mg/kg	<0.185	U
PCB-1248 (Aroclor 1248)		mg/kg	<0.185	U
PCB-1254 (Aroclor 1254)		mg/kg	<0.185	U
PCB-1260 (Aroclor 1260)		mg/kg	<0.185	U
Pesticides (8081B)				
P,P'-DDD		ug/kg	<3.3	U
P,P'-DDE		ug/kg	<3.3	U
P,P'-DDT		ug/kg	<3.3	U
Aldrin		ug/kg	<1.7	U
Dieldrin		ug/kg	<3.3	U
Alpha Endosulfan		ug/kg	<1.7	U
Beta Endosulfan		ug/kg	<3.3	U
Endosulfan Sulfate		ug/kg	<3.3	U
Endrin		ug/kg	<3.3	U
Endrin Aldehyde		ug/kg	<3.3	U
Endrin Ketone		ug/kg	<3.3	U
Heptachlor		ug/kg	<1.7	U
Heptachlor Epoxide		ug/kg	<2.0	U
Methoxychlor		ug/kg	<17	U
Toxaphene		ug/kg	<170	U
Alpha Bhc (Alpha Hexachlorocyclohexane)		ug/kg	<1.7	U
cis-Chlordane (Alpha Chlordane)		ug/kg	<1.7	U
Beta Bhc (Beta Hexachlorocyclohexane)		ug/kg	<1.7	U
Delta BHC (Delta Hexachlorocyclohexane)		ug/kg	<1.7	U
Gamma Bhc (Lindane)		ug/kg	<1.7	U

Table 2
Secondary Containment Closure Construction Completion Report
ST10 Sub-Slab Soil Data (Disposal)
Riverview Innovation & Technology Campus, Inc.
Tonawanda, New York

ANALYTES		SAMPLE ID:	ST10-SOIL-05132022	
		LAB ID:	222262	
		COLLECTION DATE:	5/13/2022	
		SAMPLE DEPTH:	NA	
		SAMPLE MATRIX:	SOIL	
	EPA TCLP	UNITS	ST10 Soil Pile	
Chlordane (Technical)		ug/kg	<170	U
Herbicides (SW8151A)				
Acetic acid, (2,4,5-trichlorophenoxy)-		ug/kg	<300	U
Silvex (2,4,5-TP)		ug/kg	<300	U
2,4-D (Dichlorophenoxyacetic Acid)		ug/kg	<1200	U
Ammonia (E350.1M)				
Nitrogen, Ammonia (As N)		ug/g	**2000**	
SW9012B				
Cyanide		ug/g	**1.11**	
SOLIDS				
Total Solids		%	**81.1**	
SW9045D				
pH		ph units	**7.07**	
TCLP VOCs (SW8260C)				
1,2-Dichloroethane	500	µg/l	<20.0	U
Chlorobenzene	100000	µg/l	<20.0	U
Tetrachloroethylene (PCE)	700	µg/l	<20.0	U
Carbon Tetrachloride	500	µg/l	<20.0	U
Chloroform	6000	µg/l	<20.0	U
Benzene	500	µg/l	<20.0	U
Vinyl Chloride	200	µg/l	<20.0	U
1,1-Dichloroethene	700	µg/l	<20.0	U
Methyl Ethyl Ketone (2-Butanone)	200000	µg/l	<100	U
Trichloroethylene (TCE)	500	µg/l	<20.0	U

Table 2
Secondary Containment Closure Construction Completion Report
ST10 Sub-Slab Soil Data (Disposal)
Riverview Innovation & Technology Campus, Inc.
Tonawanda, New York

ANALYTES			SAMPLE ID:	ST10-SOIL-05132022
			LAB ID:	222262
			COLLECTION DATE:	5/13/2022
			SAMPLE DEPTH:	NA
			SAMPLE MATRIX:	SOIL
	EPA TCLP	UNITS	ST10 Soil Pile	
TCLP SVOCs (SW8270D)				
1,4-Dichlorobenzene	7500	µg/l	<50	U
2,4,5-Trichlorophenol	400000	µg/l	<50	U
2,4,6-Trichlorophenol	2000	µg/l	<50	U
2,4-Dinitrotoluene	130	µg/l	<50	U
Cresols, (as m,p,o-Cresol)	20000	µg/l	<200	U
Hexachlorobenzene	130	µg/l	<50	U
Hexachlorobutadiene	500	µg/l	<50	U
Hexachloroethane	3000	µg/l	<50	U
Nitrobenzene	2000	µg/l	<50	U
Pentachlorophenol	100000	µg/l	<250	U
Pyridine	5000	µg/l	<100	U
TCLP Mercury (SW7470)				
Mercury	0.2	mg/l	<0.00200	U
TCLP Metals (SW6010)				
Arsenic	5	mg/l	<0.050	U
Barium	100	mg/l	<0.100	U
Cadmium	1	mg/l	<0.050	U
Chromium, Total	5	mg/l	<0.050	U
Lead	5	mg/l	<0.050	U
Selenium	1	mg/l	<0.050	U
Silver	5	mg/l	<0.100	U
TCLP Pesticides (8081B)				
Chlordane	0.03	mg/l	<0.010	U
Endrin	0.02	mg/l	<0.0020	U
Gamma Bhc (Lindane)	0.4	mg/l	<0.0020	U
Heptachlor	0.008	mg/l	<0.0020	U
Heptachlor Epoxide	0.008	mg/l	<0.0020	U
Methoxychlor	10	mg/l	<0.010	U
Toxaphene	0.5	mg/l	<0.020	U
TCLP Herbicides (SW8151A)				
2,4-D (Dichlorophenoxyacetic Acid)	10	mg/l	<0.050	U
Silvex (2,4,5-TP)	1	mg/l	<0.050	U

Table 2
Secondary Containment Closure Construction Completion Report
ST10 Sub-Slab Soil Data (Disposal)
Riverview Innovation & Technology Campus, Inc.
Tonawanda, New York

ANALYTES		SAMPLE ID:	ST10-SOIL-05132022	
		LAB ID:	222262	
		COLLECTION DATE:	5/13/2022	
		SAMPLE DEPTH:	NA	
		SAMPLE MATRIX:	SOIL	
	EPA TCLP	UNITS	ST10 Soil Pile	
Paint Filter				
Paint Filter		-	Pass	
Ignitability				
Ignitability		mm/sec	No Burn	
Notes:				
NS = Not Sampled				
NC = Not Calculable				
NA = Sample collected, but not analyzed				
"<" = Analyzed for but detected at or above the quantitation limit				
J = Analyte detected below quantitation limit				
C = Continuing Calibration Verification (CCV) below acceptable limits				
S: Lab Control Sample (LCS) Spike recovery is below acceptable limits				
Bold = Analyte was detected				
Yellow Highlight = Analyte concentration exceeds TCLP limits				

Table 3
Secondary Containment Closure Construction Completion Report
ST10 Secondary Containment Concrete (Disposal)
Riverview Innovation & Technology Campus, Inc.
Tonawanda, New York

ANALYTES	SAMPLE ID:		ST10-CONCRETE-05132022	
	LAB ID:		222262	
	COLLECTION DATE:		5/13/2022	
	SAMPLE DEPTH:		NA	
	SAMPLE MATRIX:		CONCRETE	
	EPA TCLP	UNITS	ST10 SECONDARY CONTAINMENT	
PCBS (8082A)				
PCB-1016 (Aroclor 1016)		mg/kg	<0.163	U
PCB-1221 (Aroclor 1221)		mg/kg	<0.163	U
PCB-1232 (Aroclor 1232)		mg/kg	<0.163	U
PCB-1242 (Aroclor 1242)		mg/kg	<0.163	U
PCB-1248 (Aroclor 1248)		mg/kg	<0.163	U
PCB-1254 (Aroclor 1254)		mg/kg	<0.163	U
PCB-1260 (Aroclor 1260)		mg/kg	<0.163	U
Pesticides (8081B)				
P,P'-DDD		ug/kg	<3.3	U
P,P'-DDE		ug/kg	<3.3	U
P,P'-DDT		ug/kg	<3.3	U
Aldrin		ug/kg	<1.7	U
Dieldrin		ug/kg	<3.3	U
Alpha Endosulfan		ug/kg	<1.7	U
Beta Endosulfan		ug/kg	<3.3	U
Endosulfan Sulfate		ug/kg	<3.3	U
Endrin		ug/kg	<3.3	U
Endrin Aldehyde		ug/kg	<3.3	U
Endrin Ketone		ug/kg	<3.3	U
Heptachlor		ug/kg	<1.7	U
Heptachlor Epoxide		ug/kg	<2.0	U
Methoxychlor		ug/kg	<17	U
Toxaphene		ug/kg	<170	U
Alpha Bhc (Alpha Hexachlorocyclohexane)		ug/kg	<1.7	U
cis-Chlordane (Alpha Chlordane)		ug/kg	<1.7	U
Beta Bhc (Beta Hexachlorocyclohexane)		ug/kg	<1.7	U
Delta BHC (Delta Hexachlorocyclohexane)		ug/kg	<1.7	U
Gamma Bhc (Lindane)		ug/kg	<1.7	U
Chlordane (Technical)		ug/kg	<170	U
Herbicides (SW8151A)				
Acetic acid, (2,4,5-trichlorophenoxy)-		ug/kg	<300	U
Silvex (2,4,5-TP)		ug/kg	<300	U
2,4-D (Dichlorophenoxyacetic Acid)		ug/kg	<1200	U

Table 3
Secondary Containment Closure Construction Completion Report
ST10 Secondary Containment Concrete (Disposal)
Riverview Innovation & Technology Campus, Inc.
Tonawanda, New York

ANALYTES	SAMPLE ID:		ST10-CONCRETE-05132022	
	LAB ID:		222262	
	COLLECTION DATE:		5/13/2022	
	SAMPLE DEPTH:		NA	
	SAMPLE MATRIX:		CONCRETE	
	EPA TCLP	UNITS	ST10 SECONDARY CONTAINMENT	
SW9045D				
pH		SU	**11.5**	
TCLP - SW8260C				
1,2-Dichloroethane	500	ug/l	<20.0	U
Chlorobenzene	100000	ug/l	<20.0	U
Tetrachloroethylene (PCE)	700	ug/l	<20.0	U
Carbon Tetrachloride	500	ug/l	<20.0	U
Chloroform	6000	ug/l	<20.0	U
Benzene	500	ug/l	<20.0	U
Vinyl Chloride	200	ug/l	<20.0	U
1,1-Dichloroethene	700	ug/l	<20.0	U
Methyl Ethyl Ketone (2-Butanone)	200000	ug/l	<100	U
Trichloroethylene (TCE)	500	ug/l	<20.0	U
TCLP - SW8270D				
1,4-Dichlorobenzene	7500	ug/l	<50	U
2,4,5-Trichlorophenol	400000	ug/l	<50	U
2,4,6-Trichlorophenol	2000	ug/l	<50	U
2,4-Dinitrotoluene	130	ug/l	<50	U
Cresols, (as m,p,o-Cresol)	20000	ug/l	<200	U
Hexachlorobenzene	130	ug/l	<50	U
Hexachlorobutadiene	500	ug/l	<50	U
Hexachloroethane	3000	ug/l	<50	U
Nitrobenzene	2000	ug/l	<50	U
Pentachlorophenol	100000	ug/l	<250	U
Pyridine	5000	ug/l	<100	U
TCLP- SW7470				
Mercury	0.2	mg/l	<0.00200	U

Table 3
Secondary Containment Closure Construction Completion Report
ST10 Secondary Containment Concrete (Disposal)
Riverview Innovation & Technology Campus, Inc.
Tonawanda, New York

ANALYTES	SAMPLE ID:		ST10-CONCRETE-05132022	
	LAB ID:		222262	
	COLLECTION DATE:		5/13/2022	
	SAMPLE DEPTH:		NA	
	SAMPLE MATRIX:		CONCRETE	
	EPA TCLP	UNITS	ST10 SECONDARY CONTAINMENT	
TCLP - SW6010				
Arsenic	5	mg/l	<0.050	U
Barium	100	mg/l	<0.100	U
Cadmium	1	mg/l	<0.050	U
Chromium, Total	5	mg/l	<0.050	U
Lead	5	mg/l	<0.050	U
Selenium	1	mg/l	<0.050	U
Silver	5	mg/l	<0.100	U
Paint Filter				
Paint Filter		-	Pass	
Notes:				
NS = Not Sampled				
NC = Not Calculable				
NA = Sample collected, but not analyzed				
"<" = Analyzed for but detected at or above the quantitation limit				
J = Analyte detected below quantitation limit				
C = Continuing Calibration Verification (CCV) below acceptable limits				
S: Lab Control Sample (LCS) Spike recovery is below acceptable limits				
Bold = Analyte was detected				
Yellow Highlight = Analyte concentration exceeds TCLP limits				

Appendix A – Waste Manifests

MODERN NON-HAZARDOUS WASTE ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0016909

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0016909
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street Suite 200 Buffalo, New York 14210 f: Phone: 716-560-3006
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M22-3461	8/2/23	Concrete / Soils ST-08	1	20	20.	~~Tons~~ yards

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Matt Reardon on behalf of RITC	M.R. on behalf of RITC	8/23/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address:

b: Phone:

c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date
Kevin Swan	Kevin Swan	8-23-22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	q. Date
Michelle Petrea	Michelle Petrea	8/23/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: b: Phone:	c: Special Handling Instructions and Additional Information:

d: Friable, Non-Friable or Both:	e: Percentage Friable/NonFriable: 0% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

DESTINATION RETURN

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003230581
Date: 8/23/2022
Time: 15:26:02 - 15:45:49
Scale

Gross: 60240 POU In Scale 1-INBOU
Tare: 33380 POU Out Scale 2-OUTB
Net: 26860 POU

Truck: 2861-20
Customer: 0250310002/MODERN DISPOSAL ROI
Carrier: MDS-001/MODERN DISPOSAL
Driver: KEVINSWAN/KEVINSWAN

Truck Type: RO20
Route: M0112/MODERN ROLL OFF 12
Profile: M22-3461/RIVERVIEW INNOVATION

WO: 0003704365
Manifest: 16909

Generator: 01698-001/MODERN DISPOSAL INC
Service Site: 0005730122 OSC @ TONAWANDA COKE
Comment:

PO: NA

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Industrial Waste - General	13.43	TON

Driver: K Swan

Weighmaster: Michelle Petrea

NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

Landfill

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

1

0016911

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0016911
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street Suite 200 Buffalo, New York 14210 f: Phone: 716-560-3006
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M22-3462	8/2/23	Soil Debris STOX	1	CM	20 EST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	KC on behalf of RITC	08/24/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address: #24 9A826 Road

b: Phone:

c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date
Shawn M. Abell		8-24-22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	q. Date
John Sack		8/24/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: b: Phone:	c: Special Handling Instructions and Additional Information:
d: Friable, Non-Friable or Both:	e: Percentage Friable/NonFriable: 0% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003230743
Date: 8/24/2022
Time: 09:32:09 - 09:35:40
Scale

******** Reprinted Ticket ********

Gross: 61080 POU In Scale 1-INBOU
Tare: 25180 POU P.T.
Net: 35900 POU

Truck: PARISO-26
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: PARI-002/Pariso Hauling

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M22-3462/RIVERVIEW INNOVATION Manifest: 16911
PO: .

Generator: 01698-001/MODERN DISPOSAL INC
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Industrial Waste - General	17.95	TON

Driver: _____

Weighmaster: Dawn Srock

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003230743
Date: 8/24/2022
Time: 09:32:09 - 09:35:40
Scale

******** Reprinted Ticket ********

Gross: 61080 POUIn Scale 1-INBOU
Tare: 25180 POU P.T.
Net: 35900 POU

Truck: PARISO-26
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: PARI-002/Pariso Hauling

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M22-3462/RIVERVIEW INNOVATI(Manifest: 16911
PO: .

Generator: 01698-001/MODERN DISPOSAL INC
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Industrial Waste - General	17.95	TON

Driver: _____

Weighmaster: Dawn Srock

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

2

0016912

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0016912
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street Suite 200 Buffalo, New York 14210 f: Phone: 716-560-3006
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M22-3462	8/2/23	Soil Debris STOS.	1	CM	20 EST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	K on behalf of RITC	05/24/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address: Parlso Logistics # 24 9A-826

b: Phone:

c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date
Shawnna M. Abbatiello		8-24-22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	g. Date
Michelle Petrau	M Petrau	8/24/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: b: Phone:	c: Special Handling Instructions and Additional Information:

d: Friable, Non-Friable or Both:	e: Percentage Friable/NonFriable: 0% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003230868
Date: 8/24/2022
Time: 12:11:40 - 12:12:12
Scale

******** Reprinted Ticket ********

Gross: 67640 POU In Scale 1-INBOU
Tare: 25180 POU P.T.
Net: 42460 POU

Truck: PARISO-26
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: PARI-002/Pariso Hauling

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M22-3462/RIVERVIEW INNOVATION Manifest: 16912
PO: .

Generator: 01698-001/MODERN DISPOSAL INC
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Industrial Waste - General	21.23	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003230868
Date: 8/24/2022
Time: 12:11:40 - 12:12:12
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PO: .

Generator: 01698-001/MODERN DISPOSAL INC
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Industrial Waste - General	21.23	TON

Driver: _____

Weighmaster: Michelle Petrea

Appendix B – Laboratory Reports

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Inventum Engineering, P.C.

For Lab Project ID

212155

Referencing

Riverview

Prepared

Monday, September 22, 2025

This project has been re-issued to include additional compounds, per client request.

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Emily Farmer

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-01
Lab Sample ID: 212155-01 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Corrosivity as pH

Analyte	Result	Units	Qualifier	Date Analyzed
Corrosivity (as pH)	11.16 @ 22.7 C	S.U.		5/19/2021 12:25

Method Reference(s): EPA 9045D

Ignitability

Analyte	Result	Units	Qualifier	Date Analyzed
Ignitability	No Burn	mm / sec		5/24/2021

Method Reference(s): EPA 1030

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0223**	mg/Kg		5/20/2021 09:05

Method Reference(s): EPA 7471B
Preparation Date: 5/19/2021
Data File: Hg210520C

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**4430**	mg/Kg		5/20/2021 11:35
Antimony	< 4.61	mg/Kg		5/20/2021 11:35
Arsenic	**1.34**	mg/Kg		5/20/2021 11:35
Barium	**124**	mg/Kg		5/20/2021 11:35
Beryllium	**0.464**	mg/Kg		5/20/2021 11:35
Cadmium	< 0.384	mg/Kg		5/20/2021 11:35
Calcium	**8630**	mg/Kg		5/20/2021 11:35
Chromium	**20.5**	mg/Kg		5/20/2021 11:35
Cobalt	**8.30**	mg/Kg		5/20/2021 11:35
Copper	**25.9**	mg/Kg		5/20/2021 11:35
Iron	**17100**	mg/Kg		5/20/2021 14:59
Lead	**12.4**	mg/Kg		5/20/2021 11:35

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-01
Lab Sample ID: 212155-01 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Magnesium	**761**	mg/Kg		5/20/2021 11:35
Manganese	**182**	mg/Kg		5/20/2021 11:35
Nickel	**23.6**	mg/Kg		5/20/2021 11:35
Potassium	< 192	mg/Kg		5/20/2021 11:35
Selenium	< 1.54	mg/Kg		5/20/2021 11:35
Silver	< 0.768	mg/Kg		5/20/2021 11:35
Sodium	**1580**	mg/Kg		5/20/2021 11:35
Thallium	< 1.92	mg/Kg		5/20/2021 11:35
Vanadium	**15.5**	mg/Kg		5/20/2021 11:35
Zinc	**210**	mg/Kg		5/20/2021 11:35

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/19/2021
Data File: 210520B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0430	mg/Kg		5/20/2021 15:19
PCB-1221	< 0.0430	mg/Kg		5/20/2021 15:19
PCB-1232	< 0.0430	mg/Kg		5/20/2021 15:19
PCB-1242	< 0.0430	mg/Kg		5/20/2021 15:19
PCB-1248	< 0.0430	mg/Kg		5/20/2021 15:19
PCB-1254	< 0.0430	mg/Kg		5/20/2021 15:19
PCB-1260	< 0.0430	mg/Kg		5/20/2021 15:19
PCB-1262	< 0.0430	mg/Kg		5/20/2021 15:19
PCB-1268	< 0.0430	mg/Kg		5/20/2021 15:19

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**40.8**	16.4 - 99.1		5/20/2021 15:19

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 5/19/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-01
Lab Sample ID: 212155-01 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 4.30	ug/Kg		5/19/2021 17:57
4,4-DDE	< 4.30	ug/Kg		5/19/2021 17:57
4,4-DDT	< 4.30	ug/Kg		5/19/2021 17:57
Aldrin	< 4.30	ug/Kg		5/19/2021 17:57
alpha-BHC	< 4.30	ug/Kg		5/19/2021 17:57
beta-BHC	< 4.30	ug/Kg		5/19/2021 17:57
cis-Chlordane	< 4.30	ug/Kg		5/19/2021 17:57
delta-BHC	< 4.30	ug/Kg		5/19/2021 17:57
Dieldrin	< 4.30	ug/Kg		5/19/2021 17:57
Endosulfan I	< 4.30	ug/Kg		5/19/2021 17:57
Endosulfan II	< 4.30	ug/Kg		5/19/2021 17:57
Endosulfan Sulfate	< 4.30	ug/Kg		5/19/2021 17:57
Endrin	< 4.30	ug/Kg		5/19/2021 17:57
Endrin Aldehyde	< 4.30	ug/Kg		5/19/2021 17:57
Endrin Ketone	< 4.30	ug/Kg		5/19/2021 17:57
gamma-BHC (Lindane)	< 4.30	ug/Kg		5/19/2021 17:57
Heptachlor	< 4.30	ug/Kg		5/19/2021 17:57
Heptachlor Epoxide	< 4.30	ug/Kg		5/19/2021 17:57
Methoxychlor	< 4.30	ug/Kg		5/19/2021 17:57
Toxaphene	< 43.0	ug/Kg		5/19/2021 17:57
trans-Chlordane	< 4.30	ug/Kg		5/19/2021 17:57

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**70.2**	10 - 134		5/19/2021 17:57
Tetrachloro-m-xylene (1)	**59.1**	26.3 - 99.8		5/19/2021 17:57

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 5/19/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier:	SD-BCP-ST10SE-01		
Lab Sample ID:	212155-01	**Date Sampled:**	5/17/2021 15:30
Matrix:	Soil	**Date Received**	5/18/2021

Reactive Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Cyanide	<1.0	mg/Kg		5/20/2021

Method Reference(s): EPA 7.3.3.2
Subcontractor ELAP ID: 10709
ELAP does not offer this test for approval as part of their laboratory certification program.
This sample has been reported as received.

Reactive Sulfide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Sulfide	<10	mg/Kg		5/20/2021

Method Reference(s): EPA 7.3.4.2
Subcontractor ELAP ID: 10709
ELAP does not offer this test for approval as part of their laboratory certification program.
This sample has been reported as received.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 444	ug/Kg		5/21/2021 02:14
1,2,4,5-Tetrachlorobenzene	< 444	ug/Kg		5/21/2021 02:14
1,2,4-Trichlorobenzene	< 444	ug/Kg		5/21/2021 02:14
1,2-Dichlorobenzene	< 444	ug/Kg		5/21/2021 02:14
1,3-Dichlorobenzene	< 444	ug/Kg		5/21/2021 02:14
1,4-Dichlorobenzene	< 444	ug/Kg		5/21/2021 02:14
2,2-Oxybis (1-chloropropane)	< 444	ug/Kg		5/21/2021 02:14
2,3,4,6-Tetrachlorophenol	< 444	ug/Kg		5/21/2021 02:14
2,4,5-Trichlorophenol	< 444	ug/Kg		5/21/2021 02:14
2,4,6-Trichlorophenol	< 444	ug/Kg		5/21/2021 02:14
2,4-Dichlorophenol	< 444	ug/Kg		5/21/2021 02:14
2,4-Dimethylphenol	< 444	ug/Kg		5/21/2021 02:14
2,4-Dinitrophenol	< 1780	ug/Kg		5/21/2021 02:14
2,4-Dinitrotoluene	< 444	ug/Kg		5/21/2021 02:14

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-01
Lab Sample ID: 212155-01 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

2,6-Dinitrotoluene	< 444	ug/Kg	5/21/2021 02:14
2-Chloronaphthalene	< 444	ug/Kg	5/21/2021 02:14
2-Chlorophenol	< 444	ug/Kg	5/21/2021 02:14
2-Methylnapthalene	< 444	ug/Kg	5/21/2021 02:14
2-Methylphenol	< 444	ug/Kg	5/21/2021 02:14
2-Nitroaniline	< 444	ug/Kg	5/21/2021 02:14
2-Nitrophenol	< 444	ug/Kg	5/21/2021 02:14
3&4-Methylphenol	< 444	ug/Kg	5/21/2021 02:14
3,3'-Dichlorobenzidine	< 444	ug/Kg	5/21/2021 02:14
3-Nitroaniline	< 444	ug/Kg	5/21/2021 02:14
4,6-Dinitro-2-methylphenol	< 595	ug/Kg	5/21/2021 02:14
4-Bromophenyl phenyl ether	< 444	ug/Kg	5/21/2021 02:14
4-Chloro-3-methylphenol	< 444	ug/Kg	5/21/2021 02:14
4-Chloroaniline	< 444	ug/Kg	5/21/2021 02:14
4-Chlorophenyl phenyl ether	< 444	ug/Kg	5/21/2021 02:14
4-Nitroaniline	< 444	ug/Kg	5/21/2021 02:14
4-Nitrophenol	< 444	ug/Kg	5/21/2021 02:14
Acenaphthene	< 444	ug/Kg	5/21/2021 02:14
Acenaphthylene	< 444	ug/Kg	5/21/2021 02:14
Acetophenone	< 444	ug/Kg	5/21/2021 02:14
Anthracene	< 444	ug/Kg	5/21/2021 02:14
Atrazine	< 444	ug/Kg	5/21/2021 02:14
Benzaldehyde	< 444	ug/Kg	5/21/2021 02:14
Benzo (a) anthracene	< 444	ug/Kg	5/21/2021 02:14
Benzo (a) pyrene	< 444	ug/Kg	5/21/2021 02:14
Benzo (b) fluoranthene	< 444	ug/Kg	5/21/2021 02:14
Benzo (g,h,i) perylene	< 444	ug/Kg	5/21/2021 02:14
Benzo (k) fluoranthene	< 444	ug/Kg	5/21/2021 02:14
Bis (2-chloroethoxy) methane	< 444	ug/Kg	5/21/2021 02:14
Bis (2-chloroethyl) ether	< 444	ug/Kg	5/21/2021 02:14

Sample Identifier: SD-BCP-ST10SE-01
Lab Sample ID: 212155-01 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Bis (2-ethylhexyl) phthalate	< 444	ug/Kg	5/21/2021 02:14
Butylbenzylphthalate	< 444	ug/Kg	5/21/2021 02:14
Caprolactam	< 444	ug/Kg	5/21/2021 02:14
Carbazole	< 444	ug/Kg	5/21/2021 02:14
Chrysene	< 444	ug/Kg	5/21/2021 02:14
Dibenz (a,h) anthracene	< 444	ug/Kg	5/21/2021 02:14
Dibenzofuran	< 444	ug/Kg	5/21/2021 02:14
Diethyl phthalate	< 444	ug/Kg	5/21/2021 02:14
Dimethyl phthalate	< 444	ug/Kg	5/21/2021 02:14
Di-n-butyl phthalate	< 444	ug/Kg	5/21/2021 02:14
Di-n-octylphthalate	< 444	ug/Kg	5/21/2021 02:14
Fluoranthene	**463**	ug/Kg	5/21/2021 02:14
Fluorene	< 444	ug/Kg	5/21/2021 02:14
Hexachlorobenzene	< 444	ug/Kg	5/21/2021 02:14
Hexachlorobutadiene	< 444	ug/Kg	5/21/2021 02:14
Hexachlorocyclopentadiene	< 1780	ug/Kg	5/21/2021 02:14
Hexachloroethane	< 444	ug/Kg	5/21/2021 02:14
Indeno (1,2,3-cd) pyrene	< 444	ug/Kg	5/21/2021 02:14
Isophorone	< 444	ug/Kg	5/21/2021 02:14
Naphthalene	< 444	ug/Kg	5/21/2021 02:14
Nitrobenzene	< 444	ug/Kg	5/21/2021 02:14
N-Nitroso-di-n-propylamine	< 444	ug/Kg	5/21/2021 02:14
N-Nitrosodiphenylamine	< 444	ug/Kg	5/21/2021 02:14
Pentachlorophenol	< 889	ug/Kg	5/21/2021 02:14
Phenanthrene	< 444	ug/Kg	5/21/2021 02:14
Phenol	< 444	ug/Kg	5/21/2021 02:14
Pyrene	< 444	ug/Kg	5/21/2021 02:14

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-01
Lab Sample ID: 212155-01 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**27.0**	34.6 - 87.3	*	5/21/2021 02:14
2-Fluorobiphenyl	**52.4**	34.6 - 83.9		5/21/2021 02:14
2-Fluorophenol	**26.4**	38.2 - 79	*	5/21/2021 02:14
Nitrobenzene-d5	**50.8**	32.4 - 76		5/21/2021 02:14
Phenol-d5	**47.8**	37 - 75.5		5/21/2021 02:14
Terphenyl-d14	**60.8**	38.2 - 88.8		5/21/2021 02:14

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/20/2021
Data File: B54327.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1,2-Tetrachloroethane	< 9.47	ug/Kg		5/21/2021 16:04
1,1,1-Trichloroethane	< 9.47	ug/Kg		5/21/2021 16:04
1,1,2,2-Tetrachloroethane	< 9.47	ug/Kg		5/21/2021 16:04
1,1,2-Trichloroethane	< 9.47	ug/Kg		5/21/2021 16:04
1,1-Dichloroethane	< 9.47	ug/Kg		5/21/2021 16:04
1,1-Dichloroethene	< 9.47	ug/Kg		5/21/2021 16:04
1,1-Dichloropropene	< 9.47	ug/Kg		5/21/2021 16:04
1,2,3-Trichlorobenzene	< 23.7	ug/Kg		5/21/2021 16:04
1,2,3-Trichloropropane	< 9.47	ug/Kg		5/21/2021 16:04
1,2,4-Trichlorobenzene	< 23.7	ug/Kg		5/21/2021 16:04
1,2,4-Trimethylbenzene	< 9.47	ug/Kg		5/21/2021 16:04
1,2-Dibromo-3-Chloropropane	< 47.4	ug/Kg		5/21/2021 16:04
1,2-Dibromoethane	< 9.47	ug/Kg		5/21/2021 16:04
1,2-Dichlorobenzene	< 9.47	ug/Kg		5/21/2021 16:04
1,2-Dichloroethane	< 9.47	ug/Kg		5/21/2021 16:04
1,2-Dichloropropane	< 9.47	ug/Kg		5/21/2021 16:04
1,3,5-Trimethylbenzene	< 9.47	ug/Kg		5/21/2021 16:04
1,3-Dichlorobenzene	< 9.47	ug/Kg		5/21/2021 16:04

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-01
Lab Sample ID: 212155-01 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

1,3-Dichloropropane	< 9.47	ug/Kg	5/21/2021 16:04
1,4-Dichlorobenzene	< 9.47	ug/Kg	5/21/2021 16:04
1,4-Dioxane	< 47.4	ug/Kg	5/21/2021 16:04
2,2-Dichloropropane	< 9.47	ug/Kg	5/21/2021 16:04
2-Butanone	< 47.4	ug/Kg	5/21/2021 16:04
2-Chlorotoluene	< 9.47	ug/Kg	5/21/2021 16:04
2-Hexanone	< 23.7	ug/Kg	5/21/2021 16:04
4-Chlorotoluene	< 9.47	ug/Kg	5/21/2021 16:04
4-Methyl-2-pentanone	< 23.7	ug/Kg	5/21/2021 16:04
Acetone	< 47.4	ug/Kg	5/21/2021 16:04
Benzene	< 9.47	ug/Kg	5/21/2021 16:04
Bromobenzene	< 23.7	ug/Kg	5/21/2021 16:04
Bromochloromethane	< 23.7	ug/Kg	5/21/2021 16:04
Bromodichloromethane	< 9.47	ug/Kg	5/21/2021 16:04
Bromoform	< 23.7	ug/Kg	5/21/2021 16:04
Bromomethane	< 9.47	ug/Kg	5/21/2021 16:04
Carbon disulfide	< 9.47	ug/Kg	5/21/2021 16:04
Carbon Tetrachloride	< 9.47	ug/Kg	5/21/2021 16:04
Chlorobenzene	< 9.47	ug/Kg	5/21/2021 16:04
Chloroethane	< 9.47	ug/Kg	5/21/2021 16:04
Chloroform	< 9.47	ug/Kg	5/21/2021 16:04
Chloromethane	< 9.47	ug/Kg	5/21/2021 16:04
cis-1,2-Dichloroethene	< 9.47	ug/Kg	5/21/2021 16:04
cis-1,3-Dichloropropene	< 9.47	ug/Kg	5/21/2021 16:04
Cyclohexane	< 47.4	ug/Kg	5/21/2021 16:04
Dibromochloromethane	< 9.47	ug/Kg	5/21/2021 16:04
Dibromomethane	< 9.47	ug/Kg	5/21/2021 16:04
Dichlorodifluoromethane	< 9.47	ug/Kg	5/21/2021 16:04
Ethylbenzene	< 9.47	ug/Kg	5/21/2021 16:04
Freon 113	< 9.47	ug/Kg	5/21/2021 16:04

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-01
Lab Sample ID: 212155-01 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Isopropylbenzene	< 9.47	ug/Kg	5/21/2021	16:04
m,p-Xylene	< 9.47	ug/Kg	5/21/2021	16:04
Methyl acetate	< 9.47	ug/Kg	5/21/2021	16:04
Methyl tert-butyl Ether	< 9.47	ug/Kg	5/21/2021	16:04
Methylcyclohexane	**9.48**	ug/Kg	5/21/2021	16:04
Methylene chloride	< 23.7	ug/Kg	5/21/2021	16:04
Naphthalene	< 23.7	ug/Kg	5/21/2021	16:04
n-Butylbenzene	< 9.47	ug/Kg	5/21/2021	16:04
n-Propylbenzene	< 9.47	ug/Kg	5/21/2021	16:04
o-Xylene	< 9.47	ug/Kg	5/21/2021	16:04
p-Isopropyltoluene	< 9.47	ug/Kg	5/21/2021	16:04
sec-Butylbenzene	< 9.47	ug/Kg	5/21/2021	16:04
Styrene	< 23.7	ug/Kg	5/21/2021	16:04
tert-Butylbenzene	< 9.47	ug/Kg	5/21/2021	16:04
Tetrachloroethene	< 9.47	ug/Kg	5/21/2021	16:04
Toluene	< 9.47	ug/Kg	5/21/2021	16:04
trans-1,2-Dichloroethene	< 9.47	ug/Kg	5/21/2021	16:04
trans-1,3-Dichloropropene	< 9.47	ug/Kg	5/21/2021	16:04
Trichloroethene	< 9.47	ug/Kg	5/21/2021	16:04
Trichlorofluoromethane	< 9.47	ug/Kg	5/21/2021	16:04
Vinyl chloride	< 9.47	ug/Kg	5/21/2021	16:04

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**107**	52.5 - 151		5/21/2021	16:04
4-Bromofluorobenzene	**52.6**	37.7 - 146		5/21/2021	16:04
Pentafluorobenzene	**84.1**	92.1 - 115	*	5/21/2021	16:04
Toluene-D8	**89.6**	74 - 120		5/21/2021	16:04

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z01788.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-01
Lab Sample ID: 212155-01A **Date Sampled:** 5/17/2021 15:30
Matrix: TCLP Extract **Date Received** 5/18/2021

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		5/24/2021 13:50
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		5/24/2021 13:50
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		5/24/2021 13:50
2,4-Dinitrotoluene	< 40.0	ug/L	130		5/24/2021 13:50
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		5/24/2021 13:50
Hexachlorobenzene	< 40.0	ug/L	130		5/24/2021 13:50
Hexachlorobutadiene	< 40.0	ug/L	500		5/24/2021 13:50
Hexachloroethane	< 40.0	ug/L	3000		5/24/2021 13:50
Nitrobenzene	< 40.0	ug/L	2000		5/24/2021 13:50
Pentachlorophenol	< 80.0	ug/L	100000		5/24/2021 13:50
Pyridine	< 40.0	ug/L	5000		5/24/2021 13:50

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**83.2**	56.5 - 119		5/24/2021 13:50
2-Fluorobiphenyl	**68.6**	38.9 - 93.8		5/24/2021 13:50
2-Fluorophenol	**71.9**	13.2 - 103		5/24/2021 13:50
Nitrobenzene-d5	**80.4**	43.1 - 104		5/24/2021 13:50
Phenol-d5	**69.0**	10 - 102		5/24/2021 13:50
Terphenyl-d14	**87.9**	51.8 - 109		5/24/2021 13:50

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 5/24/2021
Data File: B54400.D

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	< 0.00200	mg/L	0.2		5/24/2021 12:20

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 5/24/2021
Data File: Hg210524C

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-01
Lab Sample ID: 212155-01A **Date Sampled:** 5/17/2021 15:30
Matrix: TCLP Extract **Date Received** 5/18/2021

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.500	mg/L	5		5/24/2021 17:13
Barium	**1.95**	mg/L	100		5/24/2021 17:13
Cadmium	< 0.0250	mg/L	1		5/24/2021 17:13
Chromium	< 0.500	mg/L	5		5/24/2021 17:13
Lead	< 0.500	mg/L	5		5/24/2021 17:13
Selenium	< 0.200	mg/L	1		5/24/2021 17:13
Silver	< 0.500	mg/L	5		5/24/2021 17:13

Method Reference(s): EPA 6010C
EPA 1311 / 3005A
Preparation Date: 5/24/2021
Data File: 210524C

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		5/24/2021 12:58
1,2-Dichloroethane	< 20.0	ug/L	500		5/24/2021 12:58
2-Butanone	< 100	ug/L	200000		5/24/2021 12:58
Benzene	< 20.0	ug/L	500		5/24/2021 12:58
Carbon Tetrachloride	< 20.0	ug/L	500		5/24/2021 12:58
Chlorobenzene	< 20.0	ug/L	100000		5/24/2021 12:58
Chloroform	< 20.0	ug/L	6000		5/24/2021 12:58
Tetrachloroethene	< 20.0	ug/L	700		5/24/2021 12:58
Trichloroethene	< 20.0	ug/L	500		5/24/2021 12:58
Vinyl chloride	< 20.0	ug/L	200		5/24/2021 12:58

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-01

Lab Sample ID: 212155-01A **Date Sampled:** 5/17/2021 15:30

Matrix: TCLP Extract **Date Received** 5/18/2021

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**90.6**	64 - 142		5/24/2021 12:58
4-Bromofluorobenzene	**79.8**	37.2 - 146		5/24/2021 12:58
Pentafluorobenzene	**98.1**	91.4 - 114		5/24/2021 12:58
Toluene-D8	**88.4**	73.1 - 120		5/24/2021 12:58

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File: z01817.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-12
Lab Sample ID: 212155-02 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Corrosivity as pH

Analyte	Result	Units	Qualifier	Date Analyzed
Corrosivity (as pH)	12.14 @ 22.5 C	S.U.		5/19/2021 12:27

Method Reference(s): EPA 9045D

Ignitability

Analyte	Result	Units	Qualifier	Date Analyzed
Ignitability	No Burn	mm / sec		5/24/2021

Method Reference(s): EPA 1030

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0154**	mg/Kg		5/20/2021 00:38

Method Reference(s): EPA 7471B
Preparation Date: 5/19/2021
Data File: Hg210520C

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**16800**	mg/Kg		5/20/2021 11:39
Antimony	< 3.94	mg/Kg		5/20/2021 11:39
Arsenic	**1.07**	mg/Kg		5/20/2021 11:39
Barium	**114**	mg/Kg		5/20/2021 11:39
Beryllium	**0.335**	mg/Kg		5/20/2021 11:39
Cadmium	< 0.329	mg/Kg		5/20/2021 11:39
Calcium	**78800**	mg/Kg		5/20/2021 15:03
Chromium	**19.8**	mg/Kg		5/20/2021 11:39
Cobalt	**8.87**	mg/Kg		5/20/2021 11:39
Copper	**18.2**	mg/Kg		5/20/2021 11:39
Iron	**24600**	mg/Kg		5/20/2021 15:03
Lead	**8.46**	mg/Kg		5/20/2021 11:39

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-12
Lab Sample ID: 212155-02 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Magnesium	**15700**	mg/Kg		5/20/2021 11:39
Manganese	**475**	mg/Kg		5/20/2021 11:39
Nickel	**19.5**	mg/Kg		5/20/2021 11:39
Potassium	**4000**	mg/Kg		5/20/2021 11:39
Selenium	< 1.31	mg/Kg		5/20/2021 11:39
Silver	< 0.657	mg/Kg		5/20/2021 11:39
Sodium	**5150**	mg/Kg		5/20/2021 11:39
Thallium	< 1.64	mg/Kg		5/20/2021 11:39
Vanadium	**24.4**	mg/Kg		5/20/2021 11:39
Zinc	**96.6**	mg/Kg		5/20/2021 11:39

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/19/2021
Data File: 210520B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0377	mg/Kg		5/20/2021 15:42
PCB-1221	< 0.0377	mg/Kg		5/20/2021 15:42
PCB-1232	< 0.0377	mg/Kg		5/20/2021 15:42
PCB-1242	< 0.0377	mg/Kg		5/20/2021 15:42
PCB-1248	< 0.0377	mg/Kg		5/20/2021 15:42
PCB-1254	< 0.0377	mg/Kg		5/20/2021 15:42
PCB-1260	< 0.0377	mg/Kg		5/20/2021 15:42
PCB-1262	< 0.0377	mg/Kg		5/20/2021 15:42
PCB-1268	< 0.0377	mg/Kg		5/20/2021 15:42

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**42.9**	16.4 - 99.1		5/20/2021 15:42

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 5/19/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-12
Lab Sample ID: 212155-02 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.77	ug/Kg		5/19/2021 18:13
4,4-DDE	< 3.77	ug/Kg		5/19/2021 18:13
4,4-DDT	< 3.77	ug/Kg		5/19/2021 18:13
Aldrin	< 3.77	ug/Kg		5/19/2021 18:13
alpha-BHC	< 3.77	ug/Kg		5/19/2021 18:13
beta-BHC	< 3.77	ug/Kg		5/19/2021 18:13
cis-Chlordane	< 3.77	ug/Kg		5/19/2021 18:13
delta-BHC	< 3.77	ug/Kg		5/19/2021 18:13
Dieldrin	< 3.77	ug/Kg		5/19/2021 18:13
Endosulfan I	< 3.77	ug/Kg		5/19/2021 18:13
Endosulfan II	< 3.77	ug/Kg		5/19/2021 18:13
Endosulfan Sulfate	< 3.77	ug/Kg		5/19/2021 18:13
Endrin	< 3.77	ug/Kg		5/19/2021 18:13
Endrin Aldehyde	< 3.77	ug/Kg		5/19/2021 18:13
Endrin Ketone	< 3.77	ug/Kg		5/19/2021 18:13
gamma-BHC (Lindane)	< 3.77	ug/Kg		5/19/2021 18:13
Heptachlor	< 3.77	ug/Kg		5/19/2021 18:13
Heptachlor Epoxide	< 3.77	ug/Kg		5/19/2021 18:13
Methoxychlor	< 3.77	ug/Kg		5/19/2021 18:13
Toxaphene	< 37.7	ug/Kg		5/19/2021 18:13
trans-Chlordane	< 3.77	ug/Kg		5/19/2021 18:13

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**79.4**	10 - 134		5/19/2021 18:13
Tetrachloro-m-xylene (1)	**64.4**	26.3 - 99.8		5/19/2021 18:13

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 5/19/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-12
Lab Sample ID: 212155-02 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Reactive Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Cyanide	<1.0	mg/Kg		5/20/2021

Method Reference(s): EPA 7.3.3.2
Subcontractor ELAP ID: 10709
ELAP does not offer this test for approval as part of their laboratory certification program.
This sample has been reported as received.

Reactive Sulfide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Sulfide	<10	mg/Kg		5/20/2021

Method Reference(s): EPA 7.3.4.2
Subcontractor ELAP ID: 10709
ELAP does not offer this test for approval as part of their laboratory certification program.
This sample has been reported as received.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 339	ug/Kg		5/21/2021 02:43
1,2,4,5-Tetrachlorobenzene	< 339	ug/Kg		5/21/2021 02:43
1,2,4-Trichlorobenzene	< 339	ug/Kg		5/21/2021 02:43
1,2-Dichlorobenzene	< 339	ug/Kg		5/21/2021 02:43
1,3-Dichlorobenzene	< 339	ug/Kg		5/21/2021 02:43
1,4-Dichlorobenzene	< 339	ug/Kg		5/21/2021 02:43
2,2-Oxybis (1-chloropropane)	< 339	ug/Kg		5/21/2021 02:43
2,3,4,6-Tetrachlorophenol	< 339	ug/Kg		5/21/2021 02:43
2,4,5-Trichlorophenol	< 339	ug/Kg		5/21/2021 02:43
2,4,6-Trichlorophenol	< 339	ug/Kg		5/21/2021 02:43
2,4-Dichlorophenol	< 339	ug/Kg		5/21/2021 02:43
2,4-Dimethylphenol	< 339	ug/Kg		5/21/2021 02:43
2,4-Dinitrophenol	< 1350	ug/Kg		5/21/2021 02:43
2,4-Dinitrotoluene	< 339	ug/Kg		5/21/2021 02:43

Sample Identifier: SD-BCP-ST10SE-12
Lab Sample ID: 212155-02 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

2,6-Dinitrotoluene	< 339	ug/Kg	5/21/2021 02:43
2-Chloronaphthalene	< 339	ug/Kg	5/21/2021 02:43
2-Chlorophenol	< 339	ug/Kg	5/21/2021 02:43
2-Methylnapthalene	< 339	ug/Kg	5/21/2021 02:43
2-Methylphenol	< 339	ug/Kg	5/21/2021 02:43
2-Nitroaniline	< 339	ug/Kg	5/21/2021 02:43
2-Nitrophenol	< 339	ug/Kg	5/21/2021 02:43
3&4-Methylphenol	< 339	ug/Kg	5/21/2021 02:43
3,3'-Dichlorobenzidine	< 339	ug/Kg	5/21/2021 02:43
3-Nitroaniline	< 339	ug/Kg	5/21/2021 02:43
4,6-Dinitro-2-methylphenol	< 453	ug/Kg	5/21/2021 02:43
4-Bromophenyl phenyl ether	< 339	ug/Kg	5/21/2021 02:43
4-Chloro-3-methylphenol	< 339	ug/Kg	5/21/2021 02:43
4-Chloroaniline	< 339	ug/Kg	5/21/2021 02:43
4-Chlorophenyl phenyl ether	< 339	ug/Kg	5/21/2021 02:43
4-Nitroaniline	< 339	ug/Kg	5/21/2021 02:43
4-Nitrophenol	< 339	ug/Kg	5/21/2021 02:43
Acenaphthene	< 339	ug/Kg	5/21/2021 02:43
Acenaphthylene	< 339	ug/Kg	5/21/2021 02:43
Acetophenone	< 339	ug/Kg	5/21/2021 02:43
Anthracene	< 339	ug/Kg	5/21/2021 02:43
Atrazine	< 339	ug/Kg	5/21/2021 02:43
Benzaldehyde	< 339	ug/Kg	5/21/2021 02:43
Benzo (a) anthracene	**430**	ug/Kg	5/21/2021 02:43
Benzo (a) pyrene	**398**	ug/Kg	5/21/2021 02:43
Benzo (b) fluoranthene	**424**	ug/Kg	5/21/2021 02:43
Benzo (g,h,i) perylene	< 339	ug/Kg	5/21/2021 02:43
Benzo (k) fluoranthene	< 339	ug/Kg	5/21/2021 02:43
Bis (2-chloroethoxy) methane	< 339	ug/Kg	5/21/2021 02:43
Bis (2-chloroethyl) ether	< 339	ug/Kg	5/21/2021 02:43

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-12
Lab Sample ID: 212155-02 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Bis (2-ethylhexyl) phthalate	< 339	ug/Kg	5/21/2021	02:43
Butylbenzylphthalate	< 339	ug/Kg	5/21/2021	02:43
Caprolactam	< 339	ug/Kg	5/21/2021	02:43
Carbazole	< 339	ug/Kg	5/21/2021	02:43
Chrysene	**541**	ug/Kg	5/21/2021	02:43
Dibenz (a,h) anthracene	< 339	ug/Kg	5/21/2021	02:43
Dibenzofuran	< 339	ug/Kg	5/21/2021	02:43
Diethyl phthalate	< 339	ug/Kg	5/21/2021	02:43
Dimethyl phthalate	< 339	ug/Kg	5/21/2021	02:43
Di-n-butyl phthalate	< 339	ug/Kg	5/21/2021	02:43
Di-n-octylphthalate	< 339	ug/Kg	5/21/2021	02:43
Fluoranthene	**919**	ug/Kg	5/21/2021	02:43
Fluorene	< 339	ug/Kg	5/21/2021	02:43
Hexachlorobenzene	< 339	ug/Kg	5/21/2021	02:43
Hexachlorobutadiene	< 339	ug/Kg	5/21/2021	02:43
Hexachlorocyclopentadiene	< 1350	ug/Kg	5/21/2021	02:43
Hexachloroethane	< 339	ug/Kg	5/21/2021	02:43
Indeno (1,2,3-cd) pyrene	**343**	ug/Kg	5/21/2021	02:43
Isophorone	< 339	ug/Kg	5/21/2021	02:43
Naphthalene	< 339	ug/Kg	5/21/2021	02:43
Nitrobenzene	< 339	ug/Kg	5/21/2021	02:43
N-Nitroso-di-n-propylamine	< 339	ug/Kg	5/21/2021	02:43
N-Nitrosodiphenylamine	< 339	ug/Kg	5/21/2021	02:43
Pentachlorophenol	< 677	ug/Kg	5/21/2021	02:43
Phenanthrene	**522**	ug/Kg	5/21/2021	02:43
Phenol	< 339	ug/Kg	5/21/2021	02:43
Pyrene	**782**	ug/Kg	5/21/2021	02:43

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-12
Lab Sample ID: 212155-02 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**27.7**	34.6 - 87.3	*	5/21/2021 02:43
2-Fluorobiphenyl	**63.6**	34.6 - 83.9		5/21/2021 02:43
2-Fluorophenol	**42.8**	38.2 - 79		5/21/2021 02:43
Nitrobenzene-d5	**62.4**	32.4 - 76		5/21/2021 02:43
Phenol-d5	**64.7**	37 - 75.5		5/21/2021 02:43
Terphenyl-d14	**77.3**	38.2 - 88.8		5/21/2021 02:43

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/20/2021
Data File: B54328.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1,2-Tetrachloroethane	< 8.27	ug/Kg		5/21/2021 16:23
1,1,1-Trichloroethane	< 8.27	ug/Kg		5/21/2021 16:23
1,1,2,2-Tetrachloroethane	< 8.27	ug/Kg		5/21/2021 16:23
1,1,2-Trichloroethane	< 8.27	ug/Kg		5/21/2021 16:23
1,1-Dichloroethane	< 8.27	ug/Kg		5/21/2021 16:23
1,1-Dichloroethene	< 8.27	ug/Kg		5/21/2021 16:23
1,1-Dichloropropene	< 8.27	ug/Kg		5/21/2021 16:23
1,2,3-Trichlorobenzene	< 20.7	ug/Kg		5/21/2021 16:23
1,2,3-Trichloropropane	< 8.27	ug/Kg		5/21/2021 16:23
1,2,4-Trichlorobenzene	< 20.7	ug/Kg		5/21/2021 16:23
1,2,4-Trimethylbenzene	< 8.27	ug/Kg		5/21/2021 16:23
1,2-Dibromo-3-Chloropropane	< 41.4	ug/Kg		5/21/2021 16:23
1,2-Dibromoethane	< 8.27	ug/Kg		5/21/2021 16:23
1,2-Dichlorobenzene	< 8.27	ug/Kg		5/21/2021 16:23
1,2-Dichloroethane	< 8.27	ug/Kg		5/21/2021 16:23
1,2-Dichloropropane	< 8.27	ug/Kg		5/21/2021 16:23
1,3,5-Trimethylbenzene	< 8.27	ug/Kg		5/21/2021 16:23
1,3-Dichlorobenzene	< 8.27	ug/Kg		5/21/2021 16:23

Sample Identifier: SD-BCP-ST10SE-12
Lab Sample ID: 212155-02 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

1,3-Dichloropropane	< 8.27	ug/Kg	5/21/2021 16:23
1,4-Dichlorobenzene	< 8.27	ug/Kg	5/21/2021 16:23
1,4-Dioxane	< 41.4	ug/Kg	5/21/2021 16:23
2,2-Dichloropropane	< 8.27	ug/Kg	5/21/2021 16:23
2-Butanone	< 41.4	ug/Kg	5/21/2021 16:23
2-Chlorotoluene	< 8.27	ug/Kg	5/21/2021 16:23
2-Hexanone	< 20.7	ug/Kg	5/21/2021 16:23
4-Chlorotoluene	< 8.27	ug/Kg	5/21/2021 16:23
4-Methyl-2-pentanone	< 20.7	ug/Kg	5/21/2021 16:23
Acetone	< 41.4	ug/Kg	5/21/2021 16:23
Benzene	< 8.27	ug/Kg	5/21/2021 16:23
Bromobenzene	< 20.7	ug/Kg	5/21/2021 16:23
Bromochloromethane	< 20.7	ug/Kg	5/21/2021 16:23
Bromodichloromethane	< 8.27	ug/Kg	5/21/2021 16:23
Bromoform	< 20.7	ug/Kg	5/21/2021 16:23
Bromomethane	< 8.27	ug/Kg	5/21/2021 16:23
Carbon disulfide	< 8.27	ug/Kg	5/21/2021 16:23
Carbon Tetrachloride	< 8.27	ug/Kg	5/21/2021 16:23
Chlorobenzene	< 8.27	ug/Kg	5/21/2021 16:23
Chloroethane	< 8.27	ug/Kg	5/21/2021 16:23
Chloroform	< 8.27	ug/Kg	5/21/2021 16:23
Chloromethane	< 8.27	ug/Kg	5/21/2021 16:23
cis-1,2-Dichloroethene	< 8.27	ug/Kg	5/21/2021 16:23
cis-1,3-Dichloropropene	< 8.27	ug/Kg	5/21/2021 16:23
Cyclohexane	< 41.4	ug/Kg	5/21/2021 16:23
Dibromochloromethane	< 8.27	ug/Kg	5/21/2021 16:23
Dibromomethane	< 8.27	ug/Kg	5/21/2021 16:23
Dichlorodifluoromethane	< 8.27	ug/Kg	5/21/2021 16:23
Ethylbenzene	< 8.27	ug/Kg	5/21/2021 16:23
Freon 113	< 8.27	ug/Kg	5/21/2021 16:23

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-12
Lab Sample ID: 212155-02 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Isopropylbenzene	< 8.27	ug/Kg	5/21/2021	16:23
m,p-Xylene	< 8.27	ug/Kg	5/21/2021	16:23
Methyl acetate	< 8.27	ug/Kg	5/21/2021	16:23
Methyl tert-butyl Ether	< 8.27	ug/Kg	5/21/2021	16:23
Methylcyclohexane	< 8.27	ug/Kg	5/21/2021	16:23
Methylene chloride	< 20.7	ug/Kg	5/21/2021	16:23
Naphthalene	< 20.7	ug/Kg	5/21/2021	16:23
n-Butylbenzene	< 8.27	ug/Kg	5/21/2021	16:23
n-Propylbenzene	< 8.27	ug/Kg	5/21/2021	16:23
o-Xylene	< 8.27	ug/Kg	5/21/2021	16:23
p-Isopropyltoluene	**40.8**	ug/Kg	5/21/2021	16:23
sec-Butylbenzene	< 8.27	ug/Kg	5/21/2021	16:23
Styrene	< 20.7	ug/Kg	5/21/2021	16:23
tert-Butylbenzene	< 8.27	ug/Kg	5/21/2021	16:23
Tetrachloroethene	< 8.27	ug/Kg	5/21/2021	16:23
Toluene	< 8.27	ug/Kg	5/21/2021	16:23
trans-1,2-Dichloroethene	< 8.27	ug/Kg	5/21/2021	16:23
trans-1,3-Dichloropropene	< 8.27	ug/Kg	5/21/2021	16:23
Trichloroethene	< 8.27	ug/Kg	5/21/2021	16:23
Trichlorofluoromethane	< 8.27	ug/Kg	5/21/2021	16:23
Vinyl chloride	< 8.27	ug/Kg	5/21/2021	16:23

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**98.8**	52.5 - 151		5/21/2021	16:23
4-Bromofluorobenzene	**74.7**	37.7 - 146		5/21/2021	16:23
Pentafluorobenzene	**87.4**	92.1 - 115	*	5/21/2021	16:23
Toluene-D8	**105**	74 - 120		5/21/2021	16:23

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z01789.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-12
Lab Sample ID: 212155-02A **Date Sampled:** 5/17/2021 15:30
Matrix: TCLP Extract **Date Received** 5/18/2021

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		5/20/2021 18:14
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		5/20/2021 18:14
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		5/20/2021 18:14
2,4-Dinitrotoluene	< 40.0	ug/L	130		5/20/2021 18:14
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		5/20/2021 18:14
Hexachlorobenzene	< 40.0	ug/L	130		5/20/2021 18:14
Hexachlorobutadiene	< 40.0	ug/L	500		5/20/2021 18:14
Hexachloroethane	< 40.0	ug/L	3000		5/20/2021 18:14
Nitrobenzene	< 40.0	ug/L	2000		5/20/2021 18:14
Pentachlorophenol	< 80.0	ug/L	100000		5/20/2021 18:14
Pyridine	< 40.0	ug/L	5000		5/20/2021 18:14

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**90.1**	56.5 - 119		5/20/2021 18:14
2-Fluorobiphenyl	**75.2**	38.9 - 93.8		5/20/2021 18:14
2-Fluorophenol	**78.4**	13.2 - 103		5/20/2021 18:14
Nitrobenzene-d5	**82.6**	43.1 - 104		5/20/2021 18:14
Phenol-d5	**68.6**	10 - 102		5/20/2021 18:14
Terphenyl-d14	**102**	51.8 - 109		5/20/2021 18:14

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 5/20/2021
Data File: B54308.D

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	< 0.00200	mg/L	0.2		5/24/2021 12:22

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 5/24/2021
Data File: Hg210524C

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier:	SD-BCP-ST10SE-12		
Lab Sample ID:	212155-02A	**Date Sampled:**	5/17/2021 15:30
Matrix:	TCLP Extract	**Date Received**	5/18/2021

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.500	mg/L	5		5/21/2021 16:21
Barium	**0.844**	mg/L	100		5/21/2021 16:21
Cadmium	< 0.0250	mg/L	1		5/21/2021 16:21
Chromium	< 0.500	mg/L	5		5/21/2021 16:21
Lead	< 0.500	mg/L	5		5/21/2021 16:21
Selenium	< 0.200	mg/L	1		5/21/2021 16:21
Silver	< 0.500	mg/L	5		5/21/2021 16:21

Method Reference(s): EPA 6010C
EPA 1311 / 3005A
Preparation Date: 5/20/2021
Data File: 210521C

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		5/20/2021 14:23
1,2-Dichloroethane	< 20.0	ug/L	500		5/20/2021 14:23
2-Butanone	< 100	ug/L	200000		5/20/2021 14:23
Benzene	< 20.0	ug/L	500		5/20/2021 14:23
Carbon Tetrachloride	< 20.0	ug/L	500		5/20/2021 14:23
Chlorobenzene	< 20.0	ug/L	100000		5/20/2021 14:23
Chloroform	< 20.0	ug/L	6000		5/20/2021 14:23
Tetrachloroethene	< 20.0	ug/L	700		5/20/2021 14:23
Trichloroethene	< 20.0	ug/L	500		5/20/2021 14:23
Vinyl chloride	< 20.0	ug/L	200		5/20/2021 14:23

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10SE-12

Lab Sample ID: 212155-02A **Date Sampled:** 5/17/2021 15:30

Matrix: TCLP Extract **Date Received** 5/18/2021

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**97.7**	64 - 142		5/20/2021 14:23
4-Bromofluorobenzene	**88.7**	37.2 - 146		5/20/2021 14:23
Pentafluorobenzene	**101**	91.4 - 114		5/20/2021 14:23
Toluene-D8	**93.1**	73.1 - 120		5/20/2021 14:23

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File: z01745.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-01
Lab Sample ID: 212155-03 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Corrosivity as pH

Analyte	Result	Units	Qualifier	Date Analyzed
Corrosivity (as pH)	10.77 @ 22.6 C	S.U.		5/19/2021 12:28

Method Reference(s): EPA 9045D

Ignitability

Analyte	Result	Units	Qualifier	Date Analyzed
Ignitability	No Burn	mm / sec		5/24/2021

Method Reference(s): EPA 1030

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0926**	mg/Kg		5/20/2021 09:11

Method Reference(s): EPA 7471B
Preparation Date: 5/19/2021
Data File: Hg210520C

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**4240**	mg/Kg		5/20/2021 11:44
Antimony	< 3.40	mg/Kg		5/20/2021 11:44
Arsenic	**7.87**	mg/Kg		5/20/2021 11:44
Barium	**68.3**	mg/Kg		5/20/2021 11:44
Beryllium	**0.439**	mg/Kg		5/20/2021 11:44
Cadmium	< 0.283	mg/Kg		5/20/2021 11:44
Calcium	**7630**	mg/Kg		5/20/2021 11:44
Chromium	**13.5**	mg/Kg		5/20/2021 11:44
Cobalt	**6.36**	mg/Kg		5/20/2021 11:44
Copper	**31.2**	mg/Kg		5/20/2021 11:44
Iron	**17100**	mg/Kg		5/20/2021 15:17
Lead	**23.3**	mg/Kg		5/20/2021 11:44

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-01
Lab Sample ID: 212155-03 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Magnesium	**1150**	mg/Kg		5/20/2021 11:44
Manganese	**233**	mg/Kg		5/20/2021 11:44
Nickel	**14.6**	mg/Kg		5/20/2021 11:44
Potassium	**491**	mg/Kg		5/20/2021 11:44
Selenium	**1.62**	mg/Kg		5/20/2021 11:44
Silver	< 0.567	mg/Kg		5/20/2021 11:44
Sodium	**2660**	mg/Kg		5/20/2021 11:44
Thallium	< 1.42	mg/Kg		5/20/2021 11:44
Vanadium	**13.8**	mg/Kg		5/20/2021 11:44
Zinc	**47.3**	mg/Kg		5/20/2021 11:44

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/19/2021
Data File: 210520B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0334	mg/Kg		5/20/2021 16:05
PCB-1221	< 0.0334	mg/Kg		5/20/2021 16:05
PCB-1232	< 0.0334	mg/Kg		5/20/2021 16:05
PCB-1242	< 0.0334	mg/Kg		5/20/2021 16:05
PCB-1248	< 0.0334	mg/Kg		5/20/2021 16:05
PCB-1254	< 0.0334	mg/Kg		5/20/2021 16:05
PCB-1260	< 0.0334	mg/Kg		5/20/2021 16:05
PCB-1262	< 0.0334	mg/Kg		5/20/2021 16:05
PCB-1268	< 0.0334	mg/Kg		5/20/2021 16:05

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**41.7**	16.4 - 99.1		5/20/2021 16:05

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 5/19/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-01
Lab Sample ID: 212155-03 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.34	ug/Kg		5/19/2021 18:30
4,4-DDE	< 3.34	ug/Kg		5/19/2021 18:30
4,4-DDT	< 3.34	ug/Kg		5/19/2021 18:30
Aldrin	< 3.34	ug/Kg		5/19/2021 18:30
alpha-BHC	< 3.34	ug/Kg		5/19/2021 18:30
beta-BHC	< 3.34	ug/Kg		5/19/2021 18:30
cis-Chlordane	< 3.34	ug/Kg		5/19/2021 18:30
delta-BHC	< 3.34	ug/Kg		5/19/2021 18:30
Dieldrin	< 3.34	ug/Kg		5/19/2021 18:30
Endosulfan I	< 3.34	ug/Kg		5/19/2021 18:30
Endosulfan II	< 3.34	ug/Kg		5/19/2021 18:30
Endosulfan Sulfate	**3.39**	ug/Kg	P	5/19/2021 18:30
Endrin	**3.75**	ug/Kg		5/19/2021 18:30
Endrin Aldehyde	< 3.34	ug/Kg		5/19/2021 18:30
Endrin Ketone	**4.35**	ug/Kg	P	5/19/2021 18:30
gamma-BHC (Lindane)	< 3.34	ug/Kg		5/19/2021 18:30
Heptachlor	< 3.34	ug/Kg		5/19/2021 18:30
Heptachlor Epoxide	< 3.34	ug/Kg		5/19/2021 18:30
Methoxychlor	**10.1**	ug/Kg	P	5/19/2021 18:30
Toxaphene	< 33.4	ug/Kg		5/19/2021 18:30
trans-Chlordane	< 3.34	ug/Kg		5/19/2021 18:30

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**115**	10 - 134		5/19/2021 18:30
Tetrachloro-m-xylene (1)	**68.4**	26.3 - 99.8		5/19/2021 18:30

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 5/19/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier:	SD-BCP-ST10NW-01		
Lab Sample ID:	212155-03	**Date Sampled:**	5/17/2021 15:30
Matrix:	Soil	**Date Received**	5/18/2021

Reactive Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Cyanide	<1.0	mg/Kg		5/20/2021

Method Reference(s): EPA 7.3.3.2
Subcontractor ELAP ID: 10709
ELAP does not offer this test for approval as part of their laboratory certification program.
This sample has been reported as received.

Reactive Sulfide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Sulfide	**16.0**	mg/Kg		5/20/2021

Method Reference(s): EPA 7.3.4.2
Subcontractor ELAP ID: 10709
ELAP does not offer this test for approval as part of their laboratory certification program.
This sample has been reported as received.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 326	ug/Kg		5/21/2021 03:12
1,2,4,5-Tetrachlorobenzene	< 326	ug/Kg		5/21/2021 03:12
1,2,4-Trichlorobenzene	< 326	ug/Kg		5/21/2021 03:12
1,2-Dichlorobenzene	< 326	ug/Kg		5/21/2021 03:12
1,3-Dichlorobenzene	< 326	ug/Kg		5/21/2021 03:12
1,4-Dichlorobenzene	< 326	ug/Kg		5/21/2021 03:12
2,2-Oxybis (1-chloropropane)	< 326	ug/Kg		5/21/2021 03:12
2,3,4,6-Tetrachlorophenol	< 326	ug/Kg		5/21/2021 03:12
2,4,5-Trichlorophenol	< 326	ug/Kg		5/21/2021 03:12
2,4,6-Trichlorophenol	< 326	ug/Kg		5/21/2021 03:12
2,4-Dichlorophenol	< 326	ug/Kg		5/21/2021 03:12
2,4-Dimethylphenol	< 326	ug/Kg		5/21/2021 03:12
2,4-Dinitrophenol	< 1300	ug/Kg		5/21/2021 03:12
2,4-Dinitrotoluene	< 326	ug/Kg		5/21/2021 03:12

Sample Identifier: SD-BCP-ST10NW-01
Lab Sample ID: 212155-03 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

2,6-Dinitrotoluene	< 326	ug/Kg	5/21/2021 03:12
2-Chloronaphthalene	< 326	ug/Kg	5/21/2021 03:12
2-Chlorophenol	< 326	ug/Kg	5/21/2021 03:12
2-Methylnapthalene	**529**	ug/Kg	5/21/2021 03:12
2-Methylphenol	< 326	ug/Kg	5/21/2021 03:12
2-Nitroaniline	< 326	ug/Kg	5/21/2021 03:12
2-Nitrophenol	< 326	ug/Kg	5/21/2021 03:12
3&4-Methylphenol	< 326	ug/Kg	5/21/2021 03:12
3,3'-Dichlorobenzidine	< 326	ug/Kg	5/21/2021 03:12
3-Nitroaniline	< 326	ug/Kg	5/21/2021 03:12
4,6-Dinitro-2-methylphenol	< 436	ug/Kg	5/21/2021 03:12
4-Bromophenyl phenyl ether	< 326	ug/Kg	5/21/2021 03:12
4-Chloro-3-methylphenol	< 326	ug/Kg	5/21/2021 03:12
4-Chloroaniline	< 326	ug/Kg	5/21/2021 03:12
4-Chlorophenyl phenyl ether	< 326	ug/Kg	5/21/2021 03:12
4-Nitroaniline	< 326	ug/Kg	5/21/2021 03:12
4-Nitrophenol	< 326	ug/Kg	5/21/2021 03:12
Acenaphthene	< 326	ug/Kg	5/21/2021 03:12
Acenaphthylene	**367**	ug/Kg	5/21/2021 03:12
Acetophenone	< 326	ug/Kg	5/21/2021 03:12
Anthracene	**708**	ug/Kg	5/21/2021 03:12
Atrazine	< 326	ug/Kg	5/21/2021 03:12
Benzaldehyde	< 326	ug/Kg	5/21/2021 03:12
Benzo (a) anthracene	**2110**	ug/Kg	5/21/2021 03:12
Benzo (a) pyrene	**2260**	ug/Kg	5/21/2021 03:12
Benzo (b) fluoranthene	**2980**	ug/Kg	5/21/2021 03:12
Benzo (g,h,i) perylene	**1710**	ug/Kg	5/21/2021 03:12
Benzo (k) fluoranthene	**1300**	ug/Kg	5/21/2021 03:12
Bis (2-chloroethoxy) methane	< 326	ug/Kg	5/21/2021 03:12
Bis (2-chloroethyl) ether	< 326	ug/Kg	5/21/2021 03:12

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-01
Lab Sample ID: 212155-03 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Bis (2-ethylhexyl) phthalate	< 326	ug/Kg	5/21/2021	03:12
Butylbenzylphthalate	< 326	ug/Kg	5/21/2021	03:12
Caprolactam	< 326	ug/Kg	5/21/2021	03:12
Carbazole	< 326	ug/Kg	5/21/2021	03:12
Chrysene	**2710**	ug/Kg	5/21/2021	03:12
Dibenz (a,h) anthracene	**493**	ug/Kg	5/21/2021	03:12
Dibenzofuran	**336**	ug/Kg	5/21/2021	03:12
Diethyl phthalate	< 326	ug/Kg	5/21/2021	03:12
Dimethyl phthalate	< 326	ug/Kg	5/21/2021	03:12
Di-n-butyl phthalate	< 326	ug/Kg	5/21/2021	03:12
Di-n-octylphthalate	< 326	ug/Kg	5/21/2021	03:12
Fluoranthene	**3610**	ug/Kg	5/21/2021	03:12
Fluorene	< 326	ug/Kg	5/21/2021	03:12
Hexachlorobenzene	< 326	ug/Kg	5/21/2021	03:12
Hexachlorobutadiene	< 326	ug/Kg	5/21/2021	03:12
Hexachlorocyclopentadiene	< 1300	ug/Kg	5/21/2021	03:12
Hexachloroethane	< 326	ug/Kg	5/21/2021	03:12
Indeno (1,2,3-cd) pyrene	**1720**	ug/Kg	5/21/2021	03:12
Isophorone	< 326	ug/Kg	5/21/2021	03:12
Naphthalene	**1060**	ug/Kg	5/21/2021	03:12
Nitrobenzene	< 326	ug/Kg	5/21/2021	03:12
N-Nitroso-di-n-propylamine	< 326	ug/Kg	5/21/2021	03:12
N-Nitrosodiphenylamine	< 326	ug/Kg	5/21/2021	03:12
Pentachlorophenol	< 651	ug/Kg	5/21/2021	03:12
Phenanthrene	**2220**	ug/Kg	5/21/2021	03:12
Phenol	< 326	ug/Kg	5/21/2021	03:12
Pyrene	**2920**	ug/Kg	5/21/2021	03:12

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-01
Lab Sample ID: 212155-03 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**24.2**	34.6 - 87.3	*	5/21/2021 03:12
2-Fluorobiphenyl	**56.1**	34.6 - 83.9		5/21/2021 03:12
2-Fluorophenol	**46.3**	38.2 - 79		5/21/2021 03:12
Nitrobenzene-d5	**53.9**	32.4 - 76		5/21/2021 03:12
Phenol-d5	**54.8**	37 - 75.5		5/21/2021 03:12
Terphenyl-d14	**66.0**	38.2 - 88.8		5/21/2021 03:12

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/20/2021
Data File: B54329.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1,2-Tetrachloroethane	< 7.80	ug/Kg		5/21/2021 16:42
1,1,1-Trichloroethane	< 7.80	ug/Kg		5/21/2021 16:42
1,1,2,2-Tetrachloroethane	< 7.80	ug/Kg		5/21/2021 16:42
1,1,2-Trichloroethane	< 7.80	ug/Kg		5/21/2021 16:42
1,1-Dichloroethane	< 7.80	ug/Kg		5/21/2021 16:42
1,1-Dichloroethene	< 7.80	ug/Kg		5/21/2021 16:42
1,1-Dichloropropene	< 7.80	ug/Kg		5/21/2021 16:42
1,2,3-Trichlorobenzene	< 19.5	ug/Kg		5/21/2021 16:42
1,2,3-Trichloropropane	< 7.80	ug/Kg		5/21/2021 16:42
1,2,4-Trichlorobenzene	< 19.5	ug/Kg		5/21/2021 16:42
1,2,4-Trimethylbenzene	< 7.80	ug/Kg		5/21/2021 16:42
1,2-Dibromo-3-Chloropropane	< 39.0	ug/Kg		5/21/2021 16:42
1,2-Dibromoethane	< 7.80	ug/Kg		5/21/2021 16:42
1,2-Dichlorobenzene	< 7.80	ug/Kg		5/21/2021 16:42
1,2-Dichloroethane	< 7.80	ug/Kg		5/21/2021 16:42
1,2-Dichloropropane	< 7.80	ug/Kg		5/21/2021 16:42
1,3,5-Trimethylbenzene	< 7.80	ug/Kg		5/21/2021 16:42
1,3-Dichlorobenzene	< 7.80	ug/Kg		5/21/2021 16:42

Sample Identifier: SD-BCP-ST10NW-01
Lab Sample ID: 212155-03 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

1,3-Dichloropropane	< 7.80	ug/Kg	5/21/2021 16:42
1,4-Dichlorobenzene	< 7.80	ug/Kg	5/21/2021 16:42
1,4-Dioxane	< 39.0	ug/Kg	5/21/2021 16:42
2,2-Dichloropropane	< 7.80	ug/Kg	5/21/2021 16:42
2-Butanone	< 39.0	ug/Kg	5/21/2021 16:42
2-Chlorotoluene	< 7.80	ug/Kg	5/21/2021 16:42
2-Hexanone	< 19.5	ug/Kg	5/21/2021 16:42
4-Chlorotoluene	< 7.80	ug/Kg	5/21/2021 16:42
4-Methyl-2-pentanone	< 19.5	ug/Kg	5/21/2021 16:42
Acetone	< 39.0	ug/Kg	5/21/2021 16:42
Benzene	< 7.80	ug/Kg	5/21/2021 16:42
Bromobenzene	< 19.5	ug/Kg	5/21/2021 16:42
Bromochloromethane	< 19.5	ug/Kg	5/21/2021 16:42
Bromodichloromethane	< 7.80	ug/Kg	5/21/2021 16:42
Bromoform	< 19.5	ug/Kg	5/21/2021 16:42
Bromomethane	< 7.80	ug/Kg	5/21/2021 16:42
Carbon disulfide	< 7.80	ug/Kg	5/21/2021 16:42
Carbon Tetrachloride	< 7.80	ug/Kg	5/21/2021 16:42
Chlorobenzene	< 7.80	ug/Kg	5/21/2021 16:42
Chloroethane	< 7.80	ug/Kg	5/21/2021 16:42
Chloroform	< 7.80	ug/Kg	5/21/2021 16:42
Chloromethane	< 7.80	ug/Kg	5/21/2021 16:42
cis-1,2-Dichloroethene	< 7.80	ug/Kg	5/21/2021 16:42
cis-1,3-Dichloropropene	< 7.80	ug/Kg	5/21/2021 16:42
Cyclohexane	< 39.0	ug/Kg	5/21/2021 16:42
Dibromochloromethane	< 7.80	ug/Kg	5/21/2021 16:42
Dibromomethane	< 7.80	ug/Kg	5/21/2021 16:42
Dichlorodifluoromethane	< 7.80	ug/Kg	5/21/2021 16:42
Ethylbenzene	< 7.80	ug/Kg	5/21/2021 16:42
Freon 113	< 7.80	ug/Kg	5/21/2021 16:42

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-01
Lab Sample ID: 212155-03 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Isopropylbenzene	< 7.80	ug/Kg		5/21/2021 16:42
m,p-Xylene	< 7.80	ug/Kg		5/21/2021 16:42
Methyl acetate	< 7.80	ug/Kg		5/21/2021 16:42
Methyl tert-butyl Ether	< 7.80	ug/Kg		5/21/2021 16:42
Methylcyclohexane	< 7.80	ug/Kg		5/21/2021 16:42
Methylene chloride	< 19.5	ug/Kg		5/21/2021 16:42
Naphthalene	< 19.5	ug/Kg		5/21/2021 16:42
n-Butylbenzene	< 7.80	ug/Kg		5/21/2021 16:42
n-Propylbenzene	< 7.80	ug/Kg		5/21/2021 16:42
o-Xylene	< 7.80	ug/Kg		5/21/2021 16:42
p-Isopropyltoluene	< 7.80	ug/Kg		5/21/2021 16:42
sec-Butylbenzene	< 7.80	ug/Kg		5/21/2021 16:42
Styrene	< 19.5	ug/Kg		5/21/2021 16:42
tert-Butylbenzene	< 7.80	ug/Kg		5/21/2021 16:42
Tetrachloroethene	< 7.80	ug/Kg		5/21/2021 16:42
Toluene	< 7.80	ug/Kg		5/21/2021 16:42
trans-1,2-Dichloroethene	< 7.80	ug/Kg		5/21/2021 16:42
trans-1,3-Dichloropropene	< 7.80	ug/Kg		5/21/2021 16:42
Trichloroethene	< 7.80	ug/Kg		5/21/2021 16:42
Trichlorofluoromethane	< 7.80	ug/Kg		5/21/2021 16:42
Vinyl chloride	< 7.80	ug/Kg		5/21/2021 16:42

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**93.1**	52.5 - 151		5/21/2021 16:42
4-Bromofluorobenzene	**58.9**	37.7 - 146		5/21/2021 16:42
Pentafluorobenzene	**82.4**	92.1 - 115	*	5/21/2021 16:42
Toluene-D8	**91.0**	74 - 120		5/21/2021 16:42

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z01788.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-01
Lab Sample ID: 212155-03A **Date Sampled:** 5/17/2021 15:30
Matrix: TCLP Extract **Date Received** 5/18/2021

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		5/24/2021 14:19
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		5/24/2021 14:19
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		5/24/2021 14:19
2,4-Dinitrotoluene	< 40.0	ug/L	130		5/24/2021 14:19
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		5/24/2021 14:19
Hexachlorobenzene	< 40.0	ug/L	130		5/24/2021 14:19
Hexachlorobutadiene	< 40.0	ug/L	500		5/24/2021 14:19
Hexachloroethane	< 40.0	ug/L	3000		5/24/2021 14:19
Nitrobenzene	< 40.0	ug/L	2000		5/24/2021 14:19
Pentachlorophenol	< 80.0	ug/L	100000		5/24/2021 14:19
Pyridine	< 40.0	ug/L	5000		5/24/2021 14:19

Surrogate	Percent Recovery		Outliers	Date Analyzed
2,4,6-Tribromophenol	**87.7**	56.5 - 119		5/24/2021 14:19
2-Fluorobiphenyl	**73.2**	38.9 - 93.8		5/24/2021 14:19
2-Fluorophenol	**74.8**	13.2 - 103		5/24/2021 14:19
Nitrobenzene-d5	**84.2**	43.1 - 104		5/24/2021 14:19
Phenol-d5	**71.4**	10 - 102		5/24/2021 14:19
Terphenyl-d14	**97.7**	51.8 - 109		5/24/2021 14:19

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 5/24/2021
Data File: B54401.D

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	< 0.00200	mg/L	0.2		5/24/2021 12:23

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 5/24/2021
Data File: Hg210524C

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-01
Lab Sample ID: 212155-03A **Date Sampled:** 5/17/2021 15:30
Matrix: TCLP Extract **Date Received** 5/18/2021

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.500	mg/L	5		5/24/2021 17:26
Barium	**0.569**	mg/L	100		5/24/2021 17:26
Cadmium	< 0.0250	mg/L	1		5/24/2021 17:26
Chromium	< 0.500	mg/L	5		5/24/2021 17:26
Lead	< 0.500	mg/L	5		5/24/2021 17:26
Selenium	< 0.200	mg/L	1		5/24/2021 17:26
Silver	< 0.500	mg/L	5		5/24/2021 17:26

Method Reference(s): EPA 6010C
EPA 1311 / 3005A
Preparation Date: 5/24/2021
Data File: 210524C

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		5/24/2021 13:19
1,2-Dichloroethane	< 20.0	ug/L	500		5/24/2021 13:19
2-Butanone	< 100	ug/L	200000		5/24/2021 13:19
Benzene	< 20.0	ug/L	500		5/24/2021 13:19
Carbon Tetrachloride	< 20.0	ug/L	500		5/24/2021 13:19
Chlorobenzene	< 20.0	ug/L	100000		5/24/2021 13:19
Chloroform	< 20.0	ug/L	6000		5/24/2021 13:19
Tetrachloroethene	< 20.0	ug/L	700		5/24/2021 13:19
Trichloroethene	< 20.0	ug/L	500		5/24/2021 13:19
Vinyl chloride	< 20.0	ug/L	200		5/24/2021 13:19

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-01

Lab Sample ID: 212155-03A **Date Sampled:** 5/17/2021 15:30

Matrix: TCLP Extract **Date Received** 5/18/2021

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**95.1**	64 - 142		5/24/2021 13:19
4-Bromofluorobenzene	**87.1**	37.2 - 146		5/24/2021 13:19
Pentafluorobenzene	**96.7**	91.4 - 114		5/24/2021 13:19
Toluene-D8	**88.1**	73.1 - 120		5/24/2021 13:19

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File: z01818.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-12
Lab Sample ID: 212155-04 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Corrosivity as pH

Analyte	Result	Units	Qualifier	Date Analyzed
Corrosivity (as pH)	11.72 @ 22.7 C	S.U.		5/19/2021 12:29

Method Reference(s): EPA 9045D

Ignitability

Analyte	Result	Units	Qualifier	Date Analyzed
Ignitability	No Burn	mm / sec		5/24/2021

Method Reference(s): EPA 1030

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0316**	mg/Kg		5/20/2021 09:13

Method Reference(s): EPA 7471B
Preparation Date: 5/19/2021
Data File: Hg210520C

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**13600**	mg/Kg		5/20/2021 11:58
Antimony	< 3.37	mg/Kg	M	5/20/2021 11:58
Arsenic	**3.34**	mg/Kg		5/20/2021 11:58
Barium	**88.6**	mg/Kg		5/20/2021 11:58
Beryllium	< 0.281	mg/Kg		5/20/2021 11:58
Cadmium	< 0.281	mg/Kg	M	5/20/2021 11:58
Calcium	**64000**	mg/Kg		5/20/2021 15:22
Chromium	**17.5**	mg/Kg		5/20/2021 11:58
Cobalt	**8.38**	mg/Kg		5/20/2021 11:58
Copper	**15.6**	mg/Kg		5/20/2021 11:58
Iron	**25700**	mg/Kg		5/20/2021 15:22
Lead	**9.21**	mg/Kg	M	5/20/2021 11:58

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-12
Lab Sample ID: 212155-04 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Magnesium	**13700**	mg/Kg		5/20/2021	11:58
Manganese	**460**	mg/Kg	M	5/20/2021	11:58
Nickel	**18.6**	mg/Kg	M	5/20/2021	11:58
Potassium	**3760**	mg/Kg	M	5/20/2021	11:58
Selenium	< 1.12	mg/Kg		5/20/2021	11:58
Silver	< 0.562	mg/Kg		5/20/2021	11:58
Sodium	**3440**	mg/Kg		5/20/2021	11:58
Thallium	< 1.41	mg/Kg	M	5/20/2021	11:58
Vanadium	**22.8**	mg/Kg		5/20/2021	11:58
Zinc	**58.1**	mg/Kg		5/20/2021	11:58

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/19/2021
Data File: 210520B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0303	mg/Kg		5/20/2021 16:28
PCB-1221	< 0.0303	mg/Kg		5/20/2021 16:28
PCB-1232	< 0.0303	mg/Kg		5/20/2021 16:28
PCB-1242	< 0.0303	mg/Kg		5/20/2021 16:28
PCB-1248	< 0.0303	mg/Kg		5/20/2021 16:28
PCB-1254	< 0.0303	mg/Kg		5/20/2021 16:28
PCB-1260	< 0.0303	mg/Kg		5/20/2021 16:28
PCB-1262	< 0.0303	mg/Kg		5/20/2021 16:28
PCB-1268	< 0.0303	mg/Kg		5/20/2021 16:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**32.9**	16.4 - 99.1		5/20/2021 16:28

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 5/19/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-12
Lab Sample ID: 212155-04 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.03	ug/Kg		5/19/2021 18:46
4,4-DDE	< 3.03	ug/Kg		5/19/2021 18:46
4,4-DDT	< 3.03	ug/Kg		5/19/2021 18:46
Aldrin	< 3.03	ug/Kg		5/19/2021 18:46
alpha-BHC	< 3.03	ug/Kg		5/19/2021 18:46
beta-BHC	< 3.03	ug/Kg		5/19/2021 18:46
cis-Chlordane	< 3.03	ug/Kg		5/19/2021 18:46
delta-BHC	< 3.03	ug/Kg		5/19/2021 18:46
Dieldrin	< 3.03	ug/Kg		5/19/2021 18:46
Endosulfan I	< 3.03	ug/Kg		5/19/2021 18:46
Endosulfan II	< 3.03	ug/Kg		5/19/2021 18:46
Endosulfan Sulfate	< 3.03	ug/Kg		5/19/2021 18:46
Endrin	< 3.03	ug/Kg		5/19/2021 18:46
Endrin Aldehyde	< 3.03	ug/Kg		5/19/2021 18:46
Endrin Ketone	< 3.03	ug/Kg		5/19/2021 18:46
gamma-BHC (Lindane)	< 3.03	ug/Kg		5/19/2021 18:46
Heptachlor	< 3.03	ug/Kg		5/19/2021 18:46
Heptachlor Epoxide	< 3.03	ug/Kg		5/19/2021 18:46
Methoxychlor	< 3.03	ug/Kg		5/19/2021 18:46
Toxaphene	< 30.3	ug/Kg		5/19/2021 18:46
trans-Chlordane	< 3.03	ug/Kg		5/19/2021 18:46

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**41.1**	10 - 134		5/19/2021 18:46
Tetrachloro-m-xylene (1)	**42.9**	26.3 - 99.8		5/19/2021 18:46

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 5/19/2021

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-12
Lab Sample ID: 212155-04 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Reactive Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Cyanide	<1.0	mg/Kg		5/20/2021

Method Reference(s): EPA 7.3.3.2
Subcontractor ELAP ID: 10709
ELAP does not offer this test for approval as part of their laboratory certification program.
This sample has been reported as received.

Reactive Sulfide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Sulfide	**160**	mg/Kg		5/20/2021

Method Reference(s): EPA 7.3.4.2
Subcontractor ELAP ID: 10709
ELAP does not offer this test for approval as part of their laboratory certification program.
This sample has been reported as received.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 314	ug/Kg		5/21/2021 03:41
1,2,4,5-Tetrachlorobenzene	< 314	ug/Kg		5/21/2021 03:41
1,2,4-Trichlorobenzene	< 314	ug/Kg		5/21/2021 03:41
1,2-Dichlorobenzene	< 314	ug/Kg		5/21/2021 03:41
1,3-Dichlorobenzene	< 314	ug/Kg		5/21/2021 03:41
1,4-Dichlorobenzene	< 314	ug/Kg		5/21/2021 03:41
2,2-Oxybis (1-chloropropane)	< 314	ug/Kg		5/21/2021 03:41
2,3,4,6-Tetrachlorophenol	< 314	ug/Kg		5/21/2021 03:41
2,4,5-Trichlorophenol	< 314	ug/Kg		5/21/2021 03:41
2,4,6-Trichlorophenol	< 314	ug/Kg		5/21/2021 03:41
2,4-Dichlorophenol	< 314	ug/Kg		5/21/2021 03:41
2,4-Dimethylphenol	< 314	ug/Kg		5/21/2021 03:41
2,4-Dinitrophenol	< 1260	ug/Kg		5/21/2021 03:41
2,4-Dinitrotoluene	< 314	ug/Kg		5/21/2021 03:41

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-12
Lab Sample ID: 212155-04 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

2,6-Dinitrotoluene	< 314	ug/Kg	5/21/2021 03:41
2-Chloronaphthalene	< 314	ug/Kg	5/21/2021 03:41
2-Chlorophenol	< 314	ug/Kg	5/21/2021 03:41
2-Methylnapthalene	< 314	ug/Kg	5/21/2021 03:41
2-Methylphenol	< 314	ug/Kg	5/21/2021 03:41
2-Nitroaniline	< 314	ug/Kg	5/21/2021 03:41
2-Nitrophenol	< 314	ug/Kg	5/21/2021 03:41
3&4-Methylphenol	< 314	ug/Kg	5/21/2021 03:41
3,3'-Dichlorobenzidine	< 314	ug/Kg	5/21/2021 03:41
3-Nitroaniline	< 314	ug/Kg	5/21/2021 03:41
4,6-Dinitro-2-methylphenol	< 421	ug/Kg	5/21/2021 03:41
4-Bromophenyl phenyl ether	< 314	ug/Kg	5/21/2021 03:41
4-Chloro-3-methylphenol	< 314	ug/Kg	5/21/2021 03:41
4-Chloroaniline	< 314	ug/Kg	5/21/2021 03:41
4-Chlorophenyl phenyl ether	< 314	ug/Kg	5/21/2021 03:41
4-Nitroaniline	< 314	ug/Kg	5/21/2021 03:41
4-Nitrophenol	< 314	ug/Kg	5/21/2021 03:41
Acenaphthene	< 314	ug/Kg	5/21/2021 03:41
Acenaphthylene	< 314	ug/Kg	5/21/2021 03:41
Acetophenone	< 314	ug/Kg	5/21/2021 03:41
Anthracene	< 314	ug/Kg	5/21/2021 03:41
Atrazine	< 314	ug/Kg	5/21/2021 03:41
Benzaldehyde	< 314	ug/Kg	5/21/2021 03:41
Benzo (a) anthracene	< 314	ug/Kg	5/21/2021 03:41
Benzo (a) pyrene	< 314	ug/Kg	5/21/2021 03:41
Benzo (b) fluoranthene	< 314	ug/Kg	5/21/2021 03:41
Benzo (g,h,i) perylene	< 314	ug/Kg	5/21/2021 03:41
Benzo (k) fluoranthene	< 314	ug/Kg	5/21/2021 03:41
Bis (2-chloroethoxy) methane	< 314	ug/Kg	5/21/2021 03:41
Bis (2-chloroethyl) ether	< 314	ug/Kg	5/21/2021 03:41

Sample Identifier: SD-BCP-ST10NW-12
Lab Sample ID: 212155-04 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Bis (2-ethylhexyl) phthalate	< 314	ug/Kg	5/21/2021	03:41
Butylbenzylphthalate	< 314	ug/Kg	5/21/2021	03:41
Caprolactam	< 314	ug/Kg	5/21/2021	03:41
Carbazole	< 314	ug/Kg	5/21/2021	03:41
Chrysene	< 314	ug/Kg	5/21/2021	03:41
Dibenz (a,h) anthracene	< 314	ug/Kg	5/21/2021	03:41
Dibenzofuran	< 314	ug/Kg	5/21/2021	03:41
Diethyl phthalate	< 314	ug/Kg	5/21/2021	03:41
Dimethyl phthalate	< 314	ug/Kg	5/21/2021	03:41
Di-n-butyl phthalate	< 314	ug/Kg	5/21/2021	03:41
Di-n-octylphthalate	< 314	ug/Kg	5/21/2021	03:41
Fluoranthene	< 314	ug/Kg	5/21/2021	03:41
Fluorene	< 314	ug/Kg	5/21/2021	03:41
Hexachlorobenzene	< 314	ug/Kg	5/21/2021	03:41
Hexachlorobutadiene	< 314	ug/Kg	5/21/2021	03:41
Hexachlorocyclopentadiene	< 1260	ug/Kg	5/21/2021	03:41
Hexachloroethane	< 314	ug/Kg	5/21/2021	03:41
Indeno (1,2,3-cd) pyrene	< 314	ug/Kg	5/21/2021	03:41
Isophorone	< 314	ug/Kg	5/21/2021	03:41
Naphthalene	< 314	ug/Kg	5/21/2021	03:41
Nitrobenzene	< 314	ug/Kg	5/21/2021	03:41
N-Nitroso-di-n-propylamine	< 314	ug/Kg	5/21/2021	03:41
N-Nitrosodiphenylamine	< 314	ug/Kg	5/21/2021	03:41
Pentachlorophenol	< 629	ug/Kg	5/21/2021	03:41
Phenanthrene	< 314	ug/Kg	5/21/2021	03:41
Phenol	< 314	ug/Kg	5/21/2021	03:41
Pyrene	< 314	ug/Kg	5/21/2021	03:41

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-12
Lab Sample ID: 212155-04 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**23.6**	34.6 - 87.3	*	5/21/2021 03:41
2-Fluorobiphenyl	**65.1**	34.6 - 83.9		5/21/2021 03:41
2-Fluorophenol	**44.6**	38.2 - 79		5/21/2021 03:41
Nitrobenzene-d5	**62.7**	32.4 - 76		5/21/2021 03:41
Phenol-d5	**61.5**	37 - 75.5		5/21/2021 03:41
Terphenyl-d14	**75.0**	38.2 - 88.8		5/21/2021 03:41

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/20/2021
Data File: B54330.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1,2-Tetrachloroethane	< 7.22	ug/Kg		5/21/2021 17:02
1,1,1-Trichloroethane	< 7.22	ug/Kg		5/21/2021 17:02
1,1,2,2-Tetrachloroethane	< 7.22	ug/Kg		5/21/2021 17:02
1,1,2-Trichloroethane	< 7.22	ug/Kg		5/21/2021 17:02
1,1-Dichloroethane	< 7.22	ug/Kg		5/21/2021 17:02
1,1-Dichloroethene	< 7.22	ug/Kg		5/21/2021 17:02
1,1-Dichloropropene	< 7.22	ug/Kg		5/21/2021 17:02
1,2,3-Trichlorobenzene	< 18.0	ug/Kg		5/21/2021 17:02
1,2,3-Trichloropropane	< 7.22	ug/Kg		5/21/2021 17:02
1,2,4-Trichlorobenzene	< 18.0	ug/Kg		5/21/2021 17:02
1,2,4-Trimethylbenzene	< 7.22	ug/Kg		5/21/2021 17:02
1,2-Dibromo-3-Chloropropane	< 36.1	ug/Kg		5/21/2021 17:02
1,2-Dibromoethane	< 7.22	ug/Kg		5/21/2021 17:02
1,2-Dichlorobenzene	< 7.22	ug/Kg		5/21/2021 17:02
1,2-Dichloroethane	< 7.22	ug/Kg		5/21/2021 17:02
1,2-Dichloropropane	< 7.22	ug/Kg		5/21/2021 17:02
1,3,5-Trimethylbenzene	< 7.22	ug/Kg		5/21/2021 17:02
1,3-Dichlorobenzene	< 7.22	ug/Kg		5/21/2021 17:02

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-12
Lab Sample ID: 212155-04 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

1,3-Dichloropropane	< 7.22	ug/Kg	5/21/2021 17:02
1,4-Dichlorobenzene	< 7.22	ug/Kg	5/21/2021 17:02
1,4-Dioxane	< 36.1	ug/Kg	5/21/2021 17:02
2,2-Dichloropropane	< 7.22	ug/Kg	5/21/2021 17:02
2-Butanone	< 36.1	ug/Kg	5/21/2021 17:02
2-Chlorotoluene	< 7.22	ug/Kg	5/21/2021 17:02
2-Hexanone	< 18.0	ug/Kg	5/21/2021 17:02
4-Chlorotoluene	< 7.22	ug/Kg	5/21/2021 17:02
4-Methyl-2-pentanone	< 18.0	ug/Kg	5/21/2021 17:02
Acetone	< 36.1	ug/Kg	5/21/2021 17:02
Benzene	< 7.22	ug/Kg	5/21/2021 17:02
Bromobenzene	< 18.0	ug/Kg	5/21/2021 17:02
Bromochloromethane	< 18.0	ug/Kg	5/21/2021 17:02
Bromodichloromethane	< 7.22	ug/Kg	5/21/2021 17:02
Bromoform	< 18.0	ug/Kg	5/21/2021 17:02
Bromomethane	< 7.22	ug/Kg	5/21/2021 17:02
Carbon disulfide	< 7.22	ug/Kg	5/21/2021 17:02
Carbon Tetrachloride	< 7.22	ug/Kg	5/21/2021 17:02
Chlorobenzene	< 7.22	ug/Kg	5/21/2021 17:02
Chloroethane	< 7.22	ug/Kg	5/21/2021 17:02
Chloroform	< 7.22	ug/Kg	5/21/2021 17:02
Chloromethane	< 7.22	ug/Kg	5/21/2021 17:02
cis-1,2-Dichloroethene	< 7.22	ug/Kg	5/21/2021 17:02
cis-1,3-Dichloropropene	< 7.22	ug/Kg	5/21/2021 17:02
Cyclohexane	< 36.1	ug/Kg	5/21/2021 17:02
Dibromochloromethane	< 7.22	ug/Kg	5/21/2021 17:02
Dibromomethane	< 7.22	ug/Kg	5/21/2021 17:02
Dichlorodifluoromethane	< 7.22	ug/Kg	5/21/2021 17:02
Ethylbenzene	< 7.22	ug/Kg	5/21/2021 17:02
Freon 113	< 7.22	ug/Kg	5/21/2021 17:02

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-12
Lab Sample ID: 212155-04 **Date Sampled:** 5/17/2021 15:30
Matrix: Soil **Date Received** 5/18/2021

Isopropylbenzene	< 7.22	ug/Kg		5/21/2021 17:02
m,p-Xylene	< 7.22	ug/Kg		5/21/2021 17:02
Methyl acetate	< 7.22	ug/Kg		5/21/2021 17:02
Methyl tert-butyl Ether	< 7.22	ug/Kg		5/21/2021 17:02
Methylcyclohexane	< 7.22	ug/Kg		5/21/2021 17:02
Methylene chloride	< 18.0	ug/Kg		5/21/2021 17:02
Naphthalene	< 18.0	ug/Kg		5/21/2021 17:02
n-Butylbenzene	< 7.22	ug/Kg		5/21/2021 17:02
n-Propylbenzene	< 7.22	ug/Kg		5/21/2021 17:02
o-Xylene	< 7.22	ug/Kg		5/21/2021 17:02
p-Isopropyltoluene	< 7.22	ug/Kg		5/21/2021 17:02
sec-Butylbenzene	< 7.22	ug/Kg		5/21/2021 17:02
Styrene	< 18.0	ug/Kg		5/21/2021 17:02
tert-Butylbenzene	< 7.22	ug/Kg		5/21/2021 17:02
Tetrachloroethene	< 7.22	ug/Kg		5/21/2021 17:02
Toluene	< 7.22	ug/Kg		5/21/2021 17:02
trans-1,2-Dichloroethene	< 7.22	ug/Kg		5/21/2021 17:02
trans-1,3-Dichloropropene	< 7.22	ug/Kg		5/21/2021 17:02
Trichloroethene	< 7.22	ug/Kg		5/21/2021 17:02
Trichlorofluoromethane	< 7.22	ug/Kg		5/21/2021 17:02
Vinyl chloride	< 7.22	ug/Kg		5/21/2021 17:02

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**105**	52.5 - 151		5/21/2021 17:02
4-Bromofluorobenzene	**80.5**	37.7 - 146		5/21/2021 17:02
Pentafluorobenzene	**91.5**	92.1 - 115	*	5/21/2021 17:02
Toluene-D8	**108**	74 - 120		5/21/2021 17:02

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z01791.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-12
Lab Sample ID: 212155-04A **Date Sampled:** 5/17/2021 15:30
Matrix: TCLP Extract **Date Received** 5/18/2021

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		5/20/2021 18:43
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		5/20/2021 18:43
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		5/20/2021 18:43
2,4-Dinitrotoluene	< 40.0	ug/L	130		5/20/2021 18:43
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		5/20/2021 18:43
Hexachlorobenzene	< 40.0	ug/L	130		5/20/2021 18:43
Hexachlorobutadiene	< 40.0	ug/L	500		5/20/2021 18:43
Hexachloroethane	< 40.0	ug/L	3000		5/20/2021 18:43
Nitrobenzene	< 40.0	ug/L	2000		5/20/2021 18:43
Pentachlorophenol	< 80.0	ug/L	100000		5/20/2021 18:43
Pyridine	< 40.0	ug/L	5000		5/20/2021 18:43

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**90.8**	56.5 - 119		5/20/2021 18:43
2-Fluorobiphenyl	**72.5**	38.9 - 93.8		5/20/2021 18:43
2-Fluorophenol	**81.1**	13.2 - 103		5/20/2021 18:43
Nitrobenzene-d5	**83.3**	43.1 - 104		5/20/2021 18:43
Phenol-d5	**70.6**	10 - 102		5/20/2021 18:43
Terphenyl-d14	**107**	51.8 - 109		5/20/2021 18:43

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 5/20/2021
Data File: B54309.D

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	< 0.00200	mg/L	0.2		5/24/2021 12:25

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 5/24/2021
Data File: Hg210524C

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-12
Lab Sample ID: 212155-04A **Date Sampled:** 5/17/2021 15:30
Matrix: TCLP Extract **Date Received** 5/18/2021

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.500	mg/L	5		5/21/2021 16:26
Barium	**0.672**	mg/L	100		5/21/2021 16:26
Cadmium	< 0.0250	mg/L	1		5/21/2021 16:26
Chromium	< 0.500	mg/L	5		5/21/2021 16:26
Lead	< 0.500	mg/L	5		5/21/2021 16:26
Selenium	< 0.200	mg/L	1		5/21/2021 16:26
Silver	< 0.500	mg/L	5		5/21/2021 16:26

Method Reference(s): EPA 6010C
EPA 1311 / 3005A
Preparation Date: 5/20/2021
Data File: 210521C

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		5/24/2021 13:40
1,2-Dichloroethane	< 20.0	ug/L	500		5/24/2021 13:40
2-Butanone	< 100	ug/L	200000		5/24/2021 13:40
Benzene	< 20.0	ug/L	500		5/24/2021 13:40
Carbon Tetrachloride	< 20.0	ug/L	500		5/24/2021 13:40
Chlorobenzene	< 20.0	ug/L	100000		5/24/2021 13:40
Chloroform	< 20.0	ug/L	6000		5/24/2021 13:40
Tetrachloroethene	< 20.0	ug/L	700		5/24/2021 13:40
Trichloroethene	< 20.0	ug/L	500		5/24/2021 13:40
Vinyl chloride	< 20.0	ug/L	200		5/24/2021 13:40

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212155

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: SD-BCP-ST10NW-12

Lab Sample ID: 212155-04A **Date Sampled:** 5/17/2021 15:30

Matrix: TCLP Extract **Date Received** 5/18/2021

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**98.1**	64 - 142		5/24/2021 13:40
4-Bromofluorobenzene	**85.0**	37.2 - 146		5/24/2021 13:40
Pentafluorobenzene	**100**	91.4 - 114		5/24/2021 13:40
Toluene-D8	**92.8**	73.1 - 120		5/24/2021 13:40

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File: z01819.D

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: Soil

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	<0.00763	mg/Kg		5/20/2021 08:53

Method Reference(s): EPA 7471B
Preparation Date: 5/19/2021
Data File: Hg210520C
QC Batch ID: QC210519HgSoil
QC Number: Blk 1

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: Soil

Mercury

Analyte	LCS Added	LCSD Added	Spike Units	LCS Result	LCSD Result	LCS % Recovery	LCSD % Recovery	% Rec Limits	LCS Outliers	LCSD Outliers	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Mercury	0.0748	0.0768	mg/Kg	0.0727	0.0734	97.2	95.6	80 - 120			1.62	20		5/20/2021

Method Reference(s): EPA 7471B
Preparation Date: 5/19/2021
Data File: Hg210520C
QC Number: 1
QC Batch ID: QC210519HgSoil

Report Prepared Tuesday, May 25, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 212155
Matrix: Soil

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed	
Aluminum	<4.59	mg/Kg		5/20/2021	11:08
Antimony	<2.75	mg/Kg		5/20/2021	11:08
Arsenic	<0.459	mg/Kg		5/20/2021	11:08
Barium	<4.59	mg/Kg		5/20/2021	11:08
Beryllium	<0.229	mg/Kg		5/20/2021	11:08
Cadmium	<0.229	mg/Kg		5/20/2021	11:08
Calcium	<115	mg/Kg		5/20/2021	11:08
Chromium	<0.459	mg/Kg		5/20/2021	11:08
Cobalt	<2.29	mg/Kg		5/20/2021	11:08
Copper	<0.917	mg/Kg		5/20/2021	11:08
Iron	<9.17	mg/Kg		5/20/2021	14:44
Lead	<0.459	mg/Kg		5/20/2021	11:08
Magnesium	<115	mg/Kg		5/20/2021	11:08
Manganese	<0.688	mg/Kg		5/20/2021	11:08
Nickel	<1.83	mg/Kg		5/20/2021	11:08
Potassium	<115	mg/Kg		5/20/2021	11:08
Selenium	<0.917	mg/Kg		5/20/2021	11:08
Silver	<0.459	mg/Kg		5/20/2021	11:08
Sodium	<115	mg/Kg		5/20/2021	11:08
Thallium	<1.15	mg/Kg		5/20/2021	11:08
Vanadium	<1.15	mg/Kg		5/20/2021	11:08
Zinc	<2.75	mg/Kg		5/20/2021	11:08

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/19/2021
Data File: 210520B
QC Batch ID: QC210519Soil
QC Number: Blk 1

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: Soil

TAL Metals (ICP)

Analyte	LCS Added	LCSD Added	Spike Units	LCS Result	LCSD Result	LCS % Recovery	LCSD % Recovery	% Rec Limits	LCS Outliers	LCSD Outliers	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Aluminum	118	121	mg/Kg	116	118	98.2	97.4	80 - 120			0.868	20		5/20/2021
Antimony	118	121	mg/Kg	119	124	101	102	80 - 120			1.42	20		5/20/2021
Arsenic	118	121	mg/Kg	114	118	96.4	96.9	80 - 120			0.522	20		5/20/2021
Barium	118	121	mg/Kg	134	139	113	114	80 - 120			0.792	20		5/20/2021
Beryllium	23.6	24.3	mg/Kg	22.9	23.7	97.1	97.5	80 - 120			0.444	20		5/20/2021
Cadmium	47.2	48.5	mg/Kg	51.4	53.2	109	110	80 - 120			0.593	20		5/20/2021
Calcium	189	194	mg/Kg	196	208	104	107	80 - 120			3.16	20		5/20/2021
Chromium	118	121	mg/Kg	127	132	108	109	80 - 120			0.938	20		5/20/2021
Cobalt	47.2	48.5	mg/Kg	51.1	52.9	108	109	80 - 120			0.650	20		5/20/2021
Copper	118	121	mg/Kg	113	117	95.6	96.0	80 - 120			0.457	20		5/20/2021
Iron	118	121	mg/Kg	112	115	95.0	95.0	80 - 120			0.0421	20		5/20/2021
Lead	118	121	mg/Kg	129	134	109	110	80 - 120			0.861	20		5/20/2021
Magnesium	377	388	mg/Kg	395	413	105	106	80 - 120			1.53	20		5/20/2021
Manganese	47.2	48.5	mg/Kg	51.3	53.3	109	110	80 - 120			0.790	20		5/20/2021
Nickel	236	243	mg/Kg	245	254	104	105	80 - 120			0.713	20		5/20/2021
Potassium	2000	2060	mg/Kg	1960	2040	97.8	98.7	80 - 120			0.857	20		5/20/2021

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Friday, May 21, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: Soil

TAL Metals (ICP)

Analyte	LCS Added	LCSD Added	Spike Units	LCS Result	LCSD Result	LCS % Recovery	LCSD % Recovery	% Rec Limits	LCS Outliers	LCSD Outliers	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Selenium	118	121	mg/Kg	111	115	93.9	94.7	80 - 120			0.825	20		5/20/2021
Silver	11.8	12.1	mg/Kg	11.4	11.7	96.3	96.7	80 - 120			0.377	20		5/20/2021
Sodium	566	583	mg/Kg	542	557	95.8	95.6	80 - 120			0.194	20		5/20/2021
Thallium	118	121	mg/Kg	124	128	105	106	80 - 120			0.857	20		5/20/2021
Vanadium	47.2	48.5	mg/Kg	49.0	50.7	104	104	80 - 120			0.655	20		5/20/2021
Zinc	118	121	mg/Kg	119	124	101	102	80 - 120			1.05	20		5/20/2021

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/19/2021
Data File: 210520B
QC Number: 1
QC Batch ID: QC210519Soil

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Report Prepared Friday, May 21, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Sample Spike and Sample Duplicate

Client: Inventum Engineering, P.C.
Lab Project ID: 212155
Project Reference: Riverview

Lab Sample ID: 212155-04
Sample Identifier: SD-BCP-ST10NW-12
Matrix: Soil
Date Sampled: 5/17/2021
Date Received: 5/18/2021

TAL Metals (ICP)

Analyte	Sample Results	Result Units	Spike Added	Spike Result	Spike % Recovery	% Rec Limits	Spike Outliers	Duplicate Result	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Aluminum	**13600**	mg/Kg	139	16500	NC	75 - 125		13100	4.34	20		5/20/2021
Antimony	< 3.37	mg/Kg	139	30.0	21.6	75 - 125	*	<3.22	NC	20		5/20/2021
Arsenic	**3.34**	mg/Kg	139	111	77.3	75 - 125		3.63	8.34	20		5/20/2021
Barium	**88.6**	mg/Kg	139	205	83.4	75 - 125		87.5	1.28	20		5/20/2021
Beryllium	< 0.281	mg/Kg	27.8	21.2	76.2	75 - 125		0.276	NC	20		5/20/2021
Cadmium	< 0.281	mg/Kg	55.7	40.3	72.3	75 - 125	*	<0.268	NC	20		5/20/2021
Calcium	**64000**	mg/Kg	223	66400	NC	75 - 125		66400	3.73	20		5/20/2021
Chromium	**17.5**	mg/Kg	139	125	77.5	75 - 125		18.3	4.54	20		5/20/2021
Cobalt	**8.38**	mg/Kg	55.7	50.4	75.4	75 - 125		8.00	4.72	20		5/20/2021
Copper	**15.6**	mg/Kg	139	126	79.3	75 - 125		14.9	4.46	20		5/20/2021
Iron	**25700**	mg/Kg	139	24000	NC	75 - 125		26000	1.04	20		5/20/2021
Lead	**9.21**	mg/Kg	139	111	73.4	75 - 125	*	9.53	3.33	20		5/20/2021
Magnesium	**13700**	mg/Kg	446	14300	NC	75 - 125		13000	5.04	20		5/20/2021

NC = Not Calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added.

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Report Prepared Friday, May 21, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Sample Spike and Sample Duplicate

Client: Inventum Engineering, P.C.

Lab Project ID: 212155

Project Reference: Riverview

Lab Sample ID: 212155-04
Sample Identifier: SD-BCP-ST10NW-12
Matrix: Soil

Date Sampled: 5/17/2021
Date Received: 5/18/2021

TAL Metals (ICP)

Analyte	Sample Results	Result Units	Spike Added	Spike Result	Spike % Recovery	% Rec Limits	Spike Outliers	Duplicate Result	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Manganese	**460**	mg/Kg	55.7	533	131	75 - 125	*	460	0.0164	20		5/20/2021
Nickel	**18.6**	mg/Kg	278	203	66.3	75 - 125	*	17.8	4.69	20		5/20/2021
Potassium	**3760**	mg/Kg	2370	7110	141	75 - 125	*	3570	5.23	20		5/20/2021
Selenium	< 1.12	mg/Kg	139	108	77.7	75 - 125		<1.07	NC	20		5/20/2021
Silver	< 0.562	mg/Kg	13.9	11.8	84.7	75 - 125		<0.537	NC	20		5/20/2021
Sodium	**3440**	mg/Kg	668	4030	88.5	75 - 125		3410	0.792	20		5/20/2021
Thallium	< 1.41	mg/Kg	139	93.1	66.9	75 - 125	*	<1.34	NC	20		5/20/2021
Vanadium	**22.8**	mg/Kg	55.7	68.3	81.7	75 - 125		21.8	4.56	20		5/20/2021
Zinc	**58.1**	mg/Kg	139	167	78.3	75 - 125		58.4	0.530	20		5/20/2021

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/19/2021
210520B
QC Batch ID: QC210519Soil

NC = Not Calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added.

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Report Prepared Friday, May 21, 2021

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: TCLP Fluid

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed	
Arsenic	<0.500	mg/L		5/21/2021	15:57
Barium	<0.500	mg/L		5/21/2021	15:57
Cadmium	<0.0250	mg/L		5/21/2021	15:57
Chromium	<0.500	mg/L		5/21/2021	15:57
Lead	<0.500	mg/L		5/21/2021	15:57
Selenium	<0.200	mg/L		5/21/2021	15:57
Silver	<0.500	mg/L		5/21/2021	15:57

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/20/2021
Data File: 210521C
QC Batch ID: QC210520TCLP
QC Number: Blk 1

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: TCLP Fluid

TCLP RCRA Metals (ICP)

Analyte	LCS Added	LCSD Added	Spike Units	LCS Result	LCSD Result	LCS % Recovery	LCSD % Recovery	% Rec Limits	LCS Outliers	LCSD Outliers	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Arsenic	12.5	12.5	mg/L	12.6	12.6	101	101	80 - 120			0.170	20		5/21/2021
Barium	12.5	12.5	mg/L	12.9	12.9	103	103	80 - 120			0.603	20		5/21/2021
Cadmium	5.00	5.00	mg/L	5.25	5.28	105	106	80 - 120			0.549	20		5/21/2021
Chromium	12.5	12.5	mg/L	12.5	12.6	100	101	80 - 120			0.604	20		5/21/2021
Lead	12.5	12.5	mg/L	12.6	12.6	101	101	80 - 120			0.148	20		5/21/2021
Selenium	12.5	12.5	mg/L	12.8	12.8	102	103	80 - 120			0.608	20		5/21/2021
Silver	1.25	1.25	mg/L	1.23	1.23	98.3	98.5	80 - 120			0.244	20		5/21/2021

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/20/2021
Data File: 210521C
QC Number: 1
QC Batch ID: QC210520TCLP

Report Prepared Monday, May 24, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: TCLP Fluid

TCLP Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	<0.00200	mg/L		5/24/2021 12:15

Method Reference(s): EPA 7470A
Preparation Date: 5/24/2021
Data File: Hg210524C
QC Batch ID: QC210524HgTCLP
QC Number: Blk 1

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 212155
Matrix: TCLP Fluid

TCLP Mercury

Analyte	LCS Added	LCSD Added	Spike Units	LCS Result	LCSD Result	LCS % Recovery	LCSD % Recovery	% Rec Limits	LCS Outliers	LCSD Outliers	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Mercury	0.0200	0.0200	mg/L	0.0198	0.0189	98.8	94.4	80 - 120			4.52	20		5/24/2021

Method Reference(s): EPA 7470A
Preparation Date: 5/24/2021
Data File: Hg210524C
QC Number: 1
QC Batch ID: QC210524HgTCLP

Report Prepared Monday, May 24, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: TCLP Fluid

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed	
Arsenic	<0.500	mg/L		5/24/2021	16:58
Barium	<0.500	mg/L		5/24/2021	16:58
Cadmium	<0.0250	mg/L		5/24/2021	16:58
Chromium	<0.500	mg/L		5/24/2021	16:58
Lead	<0.500	mg/L		5/24/2021	16:58
Selenium	<0.200	mg/L		5/24/2021	16:58
Silver	<0.500	mg/L		5/24/2021	16:58

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/24/2021
Data File: 210524C
QC Batch ID: QC210524TCLP
QC Number: Blk 1

Report Prepared Tuesday, May 25, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: TCLP Fluid

TCLP RCRA Metals (ICP)

Analyte	LCS Added	LCSD Added	Spike Units	LCS Result	LCSD Result	LCS % Recovery	LCSD % Recovery	% Rec Limits	LCS Outliers	LCSD Outliers	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Arsenic	12.5	12.5	mg/L	12.5	12.5	100	99.7	80 - 120			0.462	20		5/24/2021
Barium	12.5	12.5	mg/L	12.7	13.0	102	104	80 - 120			2.39	20		5/24/2021
Cadmium	5.00	5.00	mg/L	5.20	5.23	104	105	80 - 120			0.432	20		5/24/2021
Chromium	12.5	12.5	mg/L	12.4	12.6	99.4	101	80 - 120			1.79	20		5/24/2021
Lead	12.5	12.5	mg/L	12.8	12.8	102	102	80 - 120			0.360	20		5/24/2021
Selenium	12.5	12.5	mg/L	12.5	12.6	100	101	80 - 120			0.356	20		5/24/2021
Silver	1.25	1.25	mg/L	1.22	1.23	97.5	98.2	80 - 120			0.714	20		5/24/2021

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/24/2021
Data File: 210524C
QC Number: 1
QC Batch ID: QC210524TCLP

Report Prepared Tuesday, May 25, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Sample Spike and Sample Duplicate

Client: Inventum Engineering, P.C.
Lab Project ID: 212155
Project Reference: Riverview

Lab Sample ID: 212155-01A
Sample Identifier: SD-BCP-ST10SE-01
Matrix: TCLP Extract
Date Sampled: 5/17/2021
Date Received: 5/18/2021

TCLP RCRA Metals (ICP)

Analyte	Sample Results	Result Units	Spike Added	Spike Result	Spike % Recovery	% Rec Limits	Spike Outliers	Duplicate Result	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Arsenic	< 0.500	mg/L	12.5	12.5	99.7	75 - 125		<0.500	NC	20		5/24/2021
Barium	**1.95**	mg/L	12.5	14.8	103	75 - 125		1.88	3.55	20		5/24/2021
Cadmium	< 0.0250	mg/L	5.00	5.10	102	75 - 125		<0.0250	NC	20		5/24/2021
Chromium	< 0.500	mg/L	12.5	12.5	100	75 - 125		<0.500	NC	20		5/24/2021
Lead	< 0.500	mg/L	12.5	12.6	101	75 - 125		<0.500	NC	20		5/24/2021
Selenium	< 0.200	mg/L	12.5	12.4	99.4	75 - 125		<0.200	NC	20		5/24/2021
Silver	< 0.500	mg/L	1.25	1.22	97.8	75 - 125		<0.500	NC	20		5/24/2021

Method Reference(s): EPA 6010C
EPA 1311 / 3005A
Preparation Date: 5/24/2021
210524C
QC Batch ID: QC210524TCLP

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Report Prepared Tuesday, May 25, 2021

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: Soil

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	<0.0266	mg/Kg		5/20/2021 04:06
PCB-1221	<0.0266	mg/Kg		5/20/2021 04:06
PCB-1232	<0.0266	mg/Kg		5/20/2021 04:06
PCB-1242	<0.0266	mg/Kg		5/20/2021 04:06
PCB-1248	<0.0266	mg/Kg		5/20/2021 04:06
PCB-1254	<0.0266	mg/Kg		5/20/2021 04:06
PCB-1260	<0.0266	mg/Kg		5/20/2021 04:06
PCB-1262	<0.0266	mg/Kg		5/20/2021 04:06
PCB-1268	<0.0266	mg/Kg		5/20/2021 04:06

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	55.1	16.4 - 99.1		5/20/2021 04:06

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/19/2021

QC Batch ID: QC210519PCBS

QC Number: Blk 1

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: Soil

PCBs

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
PCB-1016/1260	0.140	mg/Kg	0.0974	69.7	12.9 - 96.3		5/20/2021

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 5/19/2021
QC Number: LCS 1
QC Batch ID: QC210519PCBS

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Report Prepared Friday, May 21, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 212155
Matrix: Soil

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed	
4,4-DDD	<2.66	ug/Kg		5/19/2021	16:35
4,4-DDE	<2.66	ug/Kg		5/19/2021	16:35
4,4-DDT	<2.66	ug/Kg		5/19/2021	16:35
Aldrin	<2.66	ug/Kg		5/19/2021	16:35
alpha-BHC	<2.66	ug/Kg		5/19/2021	16:35
beta-BHC	<2.66	ug/Kg		5/19/2021	16:35
cis-Chlordane	<2.66	ug/Kg		5/19/2021	16:35
delta-BHC	<2.66	ug/Kg		5/19/2021	16:35
Dieldrin	<2.66	ug/Kg		5/19/2021	16:35
Endosulfan I	<2.66	ug/Kg		5/19/2021	16:35
Endosulfan II	<2.66	ug/Kg		5/19/2021	16:35
Endosulfan Sulfate	<2.66	ug/Kg		5/19/2021	16:35
Endrin	<2.66	ug/Kg		5/19/2021	16:35
Endrin Aldehyde	<2.66	ug/Kg		5/19/2021	16:35
Endrin Ketone	<2.66	ug/Kg		5/19/2021	16:35
gamma-BHC (Lindane)	<2.66	ug/Kg		5/19/2021	16:35
Heptachlor	<2.66	ug/Kg		5/19/2021	16:35
Heptachlor Epoxide	<2.66	ug/Kg		5/19/2021	16:35
Methoxychlor	<2.66	ug/Kg		5/19/2021	16:35
Toxaphene	<26.6	ug/Kg		5/19/2021	16:35
trans-Chlordane	<2.66	ug/Kg		5/19/2021	16:35

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
Decachlorobiphenyl (1)	**70.9**	10 - 134		5/19/2021	16:35
Tetrachloro-m-xylene (1)	**55.8**	26.3 - 99.8		5/19/2021	16:35

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 5/19/2021
QC Batch ID: QC210519PESTS
QC Number: 1

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 212155
Matrix: Soil

Chlorinated Pesticides

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
4,4-DDD (1)	13.5	ug/Kg	9.99	73.9	10 - 106		5/19/2021
4,4-DDE (1)	13.5	ug/Kg	9.42	69.7	10 - 109		5/19/2021
4,4-DDT (1)	13.5	ug/Kg	10.0	74.0	10 - 120		5/19/2021
Aldrin (1)	13.5	ug/Kg	9.18	67.9	11.3 - 103		5/19/2021
alpha-BHC (1)	13.5	ug/Kg	8.67	64.2	10.6 - 97.5		5/19/2021
beta-BHC (1)	13.5	ug/Kg	9.57	70.8	11.8 - 105		5/19/2021
cis-Chlordane (1)	13.5	ug/Kg	9.52	70.4	10 - 105		5/19/2021
delta-BHC (1)	13.5	ug/Kg	11.2	83.0	10 - 106		5/19/2021
Dieldrin (1)	13.5	ug/Kg	9.35	69.2	10 - 106		5/19/2021
Endosulfan I (1)	13.5	ug/Kg	9.19	68.0	11.7 - 98.1		5/19/2021
Endosulfan II (1)	13.5	ug/Kg	10.4	76.8	10 - 112		5/19/2021
Endosulfan Sulfate (1)	13.5	ug/Kg	10.6	78.7	10 - 120		5/19/2021
Endrin (1)	13.5	ug/Kg	7.72	57.1	10 - 96.9		5/19/2021
Endrin Aldehyde (1)	13.5	ug/Kg	14.1	104	10 - 118		5/19/2021
Endrin Ketone (1)	13.5	ug/Kg	11.5	85.4	10 - 140		5/19/2021
gamma-BHC (Lindane) (1)	13.5	ug/Kg	9.07	67.2	11.3 - 96.6		5/19/2021

Report Prepared Friday, May 21, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: Soil

Chlorinated Pesticides

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Heptachlor (1)	13.5	ug/Kg	9.07	67.1	11.8 - 103		5/19/2021
Heptachlor Epoxide (1)	13.5	ug/Kg	9.58	70.9	10 - 107		5/19/2021
Methoxychlor (1)	13.5	ug/Kg	9.47	70.1	10 - 135		5/19/2021
Toxaphene (1)	135	ug/Kg	104	77.2	10 - 115		5/19/2021
trans-Chlordane (1)	13.5	ug/Kg	9.19	68.0	10 - 101		5/19/2021

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 5/19/2021
Data File: A0000762.D
QC Number: 1
QC Batch ID: QC210519PESTS

Report Prepared Friday, May 21, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: Soil

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1-Biphenyl	<254	ug/Kg		5/20/2021	15:47
1,2,4,5-Tetrachlorobenzene	<254	ug/Kg		5/20/2021	15:47
1,2,4-Trichlorobenzene	<254	ug/Kg		5/20/2021	15:47
1,2-Dichlorobenzene	<254	ug/Kg		5/20/2021	15:47
1,3-Dichlorobenzene	<254	ug/Kg		5/20/2021	15:47
1,4-Dichlorobenzene	<254	ug/Kg		5/20/2021	15:47
2,2-Oxybis (1-chloropropane)	<254	ug/Kg		5/20/2021	15:47
2,3,4,6-Tetrachlorophenol	<254	ug/Kg		5/20/2021	15:47
2,4,5-Trichlorophenol	<254	ug/Kg		5/20/2021	15:47
2,4,6-Trichlorophenol	<254	ug/Kg		5/20/2021	15:47
2,4-Dichlorophenol	<254	ug/Kg		5/20/2021	15:47
2,4-Dimethylphenol	<254	ug/Kg		5/20/2021	15:47
2,4-Dinitrophenol	<1020	ug/Kg		5/20/2021	15:47
2,4-Dinitrotoluene	<254	ug/Kg		5/20/2021	15:47
2,6-Dinitrotoluene	<254	ug/Kg		5/20/2021	15:47
2-Chloronaphthalene	<254	ug/Kg		5/20/2021	15:47
2-Chlorophenol	<254	ug/Kg		5/20/2021	15:47
2-Methylnapthalene	<254	ug/Kg		5/20/2021	15:47
2-Methylphenol	<254	ug/Kg		5/20/2021	15:47
2-Nitroaniline	<254	ug/Kg		5/20/2021	15:47
2-Nitrophenol	<254	ug/Kg		5/20/2021	15:47
3&4-Methylphenol	<254	ug/Kg		5/20/2021	15:47
3,3'-Dichlorobenzidine	<254	ug/Kg		5/20/2021	15:47
3-Nitroaniline	<254	ug/Kg		5/20/2021	15:47
4,6-Dinitro-2-methylphenol	<508	ug/Kg		5/20/2021	15:47
4-Bromophenyl phenyl ether	<254	ug/Kg		5/20/2021	15:47
4-Chloro-3-methylphenol	<254	ug/Kg		5/20/2021	15:47
4-Chloroaniline	<254	ug/Kg		5/20/2021	15:47

PARADIGM

ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: Soil

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed	
4-Chlorophenyl phenyl ether	<254	ug/Kg		5/20/2021	15:47
4-Nitroaniline	<254	ug/Kg		5/20/2021	15:47
4-Nitrophenol	<254	ug/Kg		5/20/2021	15:47
Acenaphthene	<254	ug/Kg		5/20/2021	15:47
Acenaphthylene	<254	ug/Kg		5/20/2021	15:47
Acetophenone	<254	ug/Kg		5/20/2021	15:47
Anthracene	<254	ug/Kg		5/20/2021	15:47
Atrazine	<254	ug/Kg		5/20/2021	15:47
Benzaldehyde	<254	ug/Kg		5/20/2021	15:47
Benzo (a) anthracene	<254	ug/Kg		5/20/2021	15:47
Benzo (a) pyrene	<254	ug/Kg		5/20/2021	15:47
Benzo (b) fluoranthene	<254	ug/Kg		5/20/2021	15:47
Benzo (g,h,i) perylene	<254	ug/Kg		5/20/2021	15:47
Benzo (k) fluoranthene	<254	ug/Kg		5/20/2021	15:47
Bis (2-chloroethoxy) methane	<254	ug/Kg		5/20/2021	15:47
Bis (2-chloroethyl) ether	<254	ug/Kg		5/20/2021	15:47
Bis (2-ethylhexyl) phthalate	<254	ug/Kg		5/20/2021	15:47
Butylbenzylphthalate	<254	ug/Kg		5/20/2021	15:47
Caprolactam	<254	ug/Kg		5/20/2021	15:47
Carbazole	<254	ug/Kg		5/20/2021	15:47
Chrysene	<254	ug/Kg		5/20/2021	15:47
Dibenz (a,h) anthracene	<254	ug/Kg		5/20/2021	15:47
Dibenzofuran	<254	ug/Kg		5/20/2021	15:47
Diethyl phthalate	<254	ug/Kg		5/20/2021	15:47
Dimethyl phthalate	<254	ug/Kg		5/20/2021	15:47
Di-n-butyl phthalate	<254	ug/Kg		5/20/2021	15:47
Di-n-octylphthalate	<254	ug/Kg		5/20/2021	15:47
Fluoranthene	<254	ug/Kg		5/20/2021	15:47

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 212155
Matrix: Soil

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed	
Fluorene	<254	ug/Kg		5/20/2021	15:47
Hexachlorobenzene	<254	ug/Kg		5/20/2021	15:47
Hexachlorobutadiene	<254	ug/Kg		5/20/2021	15:47
Hexachlorocyclopentadiene	<1020	ug/Kg		5/20/2021	15:47
Hexachloroethane	<254	ug/Kg		5/20/2021	15:47
Indeno (1,2,3-cd) pyrene	<254	ug/Kg		5/20/2021	15:47
Isophorone	<254	ug/Kg		5/20/2021	15:47
Naphthalene	<254	ug/Kg		5/20/2021	15:47
Nitrobenzene	<254	ug/Kg		5/20/2021	15:47
N-Nitroso-di-n-propylamine	<254	ug/Kg		5/20/2021	15:47
N-Nitrosodiphenylamine	<254	ug/Kg		5/20/2021	15:47
Pentachlorophenol	<508	ug/Kg		5/20/2021	15:47
Phenanthrene	<254	ug/Kg		5/20/2021	15:47
Phenol	<254	ug/Kg		5/20/2021	15:47
Pyrene	<254	ug/Kg		5/20/2021	15:47

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**61.8**	34.6 - 87.3		5/20/2021	15:47
2-Fluorobiphenyl	**61.4**	34.6 - 83.9		5/20/2021	15:47
2-Fluorophenol	**64.4**	38.2 - 79		5/20/2021	15:47
Nitrobenzene-d5	**59.8**	32.4 - 76		5/20/2021	15:47
Phenol-d5	**63.7**	37 - 75.5		5/20/2021	15:47
Terphenyl-d14	**74.9**	38.2 - 88.8		5/20/2021	15:47

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/20/2021
Data File: B54303.D
QC Batch ID: QC210520ABNS
QC Number: 1

PARADIGM ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Lab Project ID: 212155

Matrix: Soil

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,2,4-Trichlorobenzene	2780	ug/Kg	1670	60.0	40.6 - 76.2		5/20/2021
1,4-Dichlorobenzene	2780	ug/Kg	1630	58.6	40.1 - 71.3		5/20/2021
2,4-Dinitrotoluene	2780	ug/Kg	1950	70.3	43 - 89.5		5/20/2021
2-Chlorophenol	4170	ug/Kg	2880	69.1	49.2 - 76.4		5/20/2021
4-Chloro-3-methylphenol	4170	ug/Kg	3040	73.0	47.3 - 81.4		5/20/2021
4-Nitrophenol	4170	ug/Kg	3300	79.1	29.7 - 93.2		5/20/2021
Acenaphthene	2780	ug/Kg	1790	64.5	45 - 80.9		5/20/2021
N-Nitroso-di-n-propylamine	2780	ug/Kg	1840	66.3	33.9 - 82		5/20/2021
Pentachlorophenol	4170	ug/Kg	3940	94.5	40.5 - 102		5/20/2021
Phenol	4170	ug/Kg	2970	71.2	44 - 79.9		5/20/2021
Pyrene	2780	ug/Kg	2130	76.8	47.6 - 95.9		5/20/2021

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/20/2021
Data File: B54304.D
QC Number: LCS 1
QC Batch ID: QC210520ABNS

Report Prepared Tuesday, May 25, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Lab Project ID: 212155

Matrix: Soil

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,2,4-Trichlorobenzene	2810	ug/Kg	1800	64.1	40.6 - 76.2		5/21/2021
1,4-Dichlorobenzene	2810	ug/Kg	1820	64.7	40.1 - 71.3		5/21/2021
2,4-Dinitrotoluene	2810	ug/Kg	2090	74.5	43 - 89.5		5/21/2021
2-Chlorophenol	4210	ug/Kg	3250	77.1	49.2 - 76.4	*	5/21/2021
4-Chloro-3-methylphenol	4210	ug/Kg	3130	74.3	47.3 - 81.4		5/21/2021
4-Nitrophenol	4210	ug/Kg	3420	81.1	29.7 - 93.2		5/21/2021
Acenaphthene	2810	ug/Kg	2000	71.1	45 - 80.9		5/21/2021
N-Nitroso-di-n-propylamine	2810	ug/Kg	2040	72.7	33.9 - 82		5/21/2021
Pentachlorophenol	4210	ug/Kg	4230	101	40.5 - 102		5/21/2021
Phenol	4210	ug/Kg	3300	78.2	44 - 79.9		5/21/2021
Pyrene	2810	ug/Kg	2360	84.2	47.6 - 95.9		5/21/2021

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/20/2021
Data File: B54346.D
QC Number: LCS 2
QC Batch ID: QC210520ABNS

Report Prepared Tuesday, May 25, 2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Lab Project ID: 212155

Matrix: Soil

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1,2-Tetrachloroethane	<2.00	ug/Kg		5/21/2021	12:07
1,1,1-Trichloroethane	<2.00	ug/Kg		5/21/2021	12:07
1,1,2,2-Tetrachloroethane	<2.00	ug/Kg		5/21/2021	12:07
1,1,2-Trichloroethane	<2.00	ug/Kg		5/21/2021	12:07
1,1-Dichloroethane	<2.00	ug/Kg		5/21/2021	12:07
1,1-Dichloroethene	<2.00	ug/Kg		5/21/2021	12:07
1,1-Dichloropropene	<2.00	ug/Kg		5/21/2021	12:07
1,2,3-Trichlorobenzene	<5.00	ug/Kg		5/21/2021	12:07
1,2,3-Trichloropropane	<2.00	ug/Kg		5/21/2021	12:07
1,2,4-Trichlorobenzene	<5.00	ug/Kg		5/21/2021	12:07
1,2,4-Trimethylbenzene	<2.00	ug/Kg		5/21/2021	12:07
1,2-Dibromo-3-Chloropropane	<10.0	ug/Kg		5/21/2021	12:07
1,2-Dibromoethane	<2.00	ug/Kg		5/21/2021	12:07
1,2-Dichlorobenzene	<2.00	ug/Kg		5/21/2021	12:07
1,2-Dichloroethane	<2.00	ug/Kg		5/21/2021	12:07
1,2-Dichloropropane	<2.00	ug/Kg		5/21/2021	12:07
1,3,5-Trimethylbenzene	<2.00	ug/Kg		5/21/2021	12:07
1,3-Dichlorobenzene	<2.00	ug/Kg		5/21/2021	12:07
1,3-Dichloropropane	<2.00	ug/Kg		5/21/2021	12:07
1,4-Dichlorobenzene	<2.00	ug/Kg		5/21/2021	12:07
1,4-Dioxane	<10.0	ug/Kg		5/21/2021	12:07
2,2-Dichloropropane	<2.00	ug/Kg		5/21/2021	12:07
2-Butanone	<10.0	ug/Kg		5/21/2021	12:07
2-Chlorotoluene	<2.00	ug/Kg		5/21/2021	12:07
2-Hexanone	<5.00	ug/Kg		5/21/2021	12:07
4-Chlorotoluene	<2.00	ug/Kg		5/21/2021	12:07
4-Methyl-2-pentanone	<5.00	ug/Kg		5/21/2021	12:07

PARADIGM ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Lab Project ID: 212155

Matrix: Soil

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
Acetone	<10.0	ug/Kg		5/21/2021	12:07
Benzene	<2.00	ug/Kg		5/21/2021	12:07
Bromobenzene	<5.00	ug/Kg		5/21/2021	12:07
Bromochloromethane	<5.00	ug/Kg		5/21/2021	12:07
Bromodichloromethane	<2.00	ug/Kg		5/21/2021	12:07
Bromoform	<5.00	ug/Kg		5/21/2021	12:07
Bromomethane	<2.00	ug/Kg		5/21/2021	12:07
Carbon disulfide	<2.00	ug/Kg		5/21/2021	12:07
Carbon Tetrachloride	<2.00	ug/Kg		5/21/2021	12:07
Chlorobenzene	<2.00	ug/Kg		5/21/2021	12:07
Chloroethane	<2.00	ug/Kg		5/21/2021	12:07
Chloroform	<2.00	ug/Kg		5/21/2021	12:07
Chloromethane	<2.00	ug/Kg		5/21/2021	12:07
cis-1,2-Dichloroethene	<2.00	ug/Kg		5/21/2021	12:07
cis-1,3-Dichloropropene	<2.00	ug/Kg		5/21/2021	12:07
Cyclohexane	<10.0	ug/Kg		5/21/2021	12:07
Dibromochloromethane	<2.00	ug/Kg		5/21/2021	12:07
Dibromomethane	<2.00	ug/Kg		5/21/2021	12:07
Dichlorodifluoromethane	<2.00	ug/Kg		5/21/2021	12:07
Ethylbenzene	<2.00	ug/Kg		5/21/2021	12:07
Freon 113	<2.00	ug/Kg		5/21/2021	12:07
Isopropylbenzene	<2.00	ug/Kg		5/21/2021	12:07
m,p-Xylene	<2.00	ug/Kg		5/21/2021	12:07
Methyl acetate	<2.00	ug/Kg		5/21/2021	12:07
Methyl tert-butyl Ether	<2.00	ug/Kg		5/21/2021	12:07
Methylcyclohexane	<2.00	ug/Kg		5/21/2021	12:07
Methylene chloride	<5.00	ug/Kg		5/21/2021	12:07
Naphthalene	<5.00	ug/Kg		5/21/2021	12:07

PARADIGM ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Lab Project ID: 212155

Matrix: Soil

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
n-Butylbenzene	<2.00	ug/Kg		5/21/2021	12:07
n-Propylbenzene	<2.00	ug/Kg		5/21/2021	12:07
o-Xylene	<2.00	ug/Kg		5/21/2021	12:07
p-Isopropyltoluene	<2.00	ug/Kg		5/21/2021	12:07
sec-Butylbenzene	<2.00	ug/Kg		5/21/2021	12:07
Styrene	<5.00	ug/Kg		5/21/2021	12:07
tert-Butylbenzene	<2.00	ug/Kg		5/21/2021	12:07
Tetrachloroethene	<2.00	ug/Kg		5/21/2021	12:07
Toluene	<2.00	ug/Kg		5/21/2021	12:07
trans-1,2-Dichloroethene	<2.00	ug/Kg		5/21/2021	12:07
trans-1,3-Dichloropropene	<2.00	ug/Kg		5/21/2021	12:07
Trichloroethene	<2.00	ug/Kg		5/21/2021	12:07
Trichlorofluoromethane	<2.00	ug/Kg		5/21/2021	12:07
Vinyl chloride	<2.00	ug/Kg		5/21/2021	12:07

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	52.2 - 151		5/21/2021	12:07
4-Bromofluorobenzene	**75.4**	37.7 - 146		5/21/2021	12:07
Pentafluorobenzene	**84.6**	92.1 - 115	*	5/21/2021	12:07
Toluene-D8	**107**	74 - 120		5/21/2021	12:07

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z01776.D

QC Batch ID: voainv210521

QC Number: Blk 1

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 212155
Matrix: Soil

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,1,1-Trichloroethane	20.0	ug/Kg	17.6	87.9	59.6 - 138		5/21/2021
1,1,2,2-Tetrachloroethane	20.0	ug/Kg	17.6	88.0	64.9 - 148		5/21/2021
1,1,2-Trichloroethane	20.0	ug/Kg	18.6	92.9	70.7 - 135		5/21/2021
1,1-Dichloroethane	20.0	ug/Kg	19.0	95.1	62.2 - 132		5/21/2021
1,1-Dichloroethene	20.0	ug/Kg	18.0	90.0	62.2 - 128		5/21/2021
1,2-Dichlorobenzene	20.0	ug/Kg	18.5	92.3	73.7 - 134		5/21/2021
1,2-Dichloroethane	20.0	ug/Kg	19.8	99.1	57.6 - 155		5/21/2021
1,2-Dichloropropane	20.0	ug/Kg	19.6	98.0	68.9 - 118		5/21/2021
1,3-Dichlorobenzene	20.0	ug/Kg	19.1	95.7	68.5 - 127		5/21/2021
1,4-Dichlorobenzene	20.0	ug/Kg	19.0	94.9	67.6 - 124		5/21/2021
Benzene	20.0	ug/Kg	18.8	94.2	76.6 - 131		5/21/2021
Bromodichloromethane	20.0	ug/Kg	18.3	91.4	62.5 - 133		5/21/2021
Bromoform	20.0	ug/Kg	19.4	97.2	53.5 - 125		5/21/2021
Bromomethane	20.0	ug/Kg	26.0	130	58.7 - 151		5/21/2021
Carbon Tetrachloride	20.0	ug/Kg	18.3	91.6	57 - 140		5/21/2021
Chlorobenzene	20.0	ug/Kg	19.4	96.8	72.9 - 131		5/21/2021

Report Prepared Monday, May 24, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 212155
Matrix: Soil

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Chloroethane	20.0	ug/Kg	19.2	95.9	58.7 - 140		5/21/2021
Chloroform	20.0	ug/Kg	18.5	92.5	64.2 - 140		5/21/2021
Chloromethane	20.0	ug/Kg	15.8	79.1	40.4 - 165		5/21/2021
cis-1,3-Dichloropropene	20.0	ug/Kg	17.6	88.2	49 - 114		5/21/2021
Dibromochloromethane	20.0	ug/Kg	19.2	95.9	59.9 - 136		5/21/2021
Ethylbenzene	20.0	ug/Kg	20.2	101	53.7 - 130		5/21/2021
Methylene chloride	20.0	ug/Kg	14.8	73.9	49.7 - 151		5/21/2021
Tetrachloroethene	20.0	ug/Kg	18.7	93.6	72.1 - 130		5/21/2021
Toluene	20.0	ug/Kg	19.9	99.6	75.2 - 133		5/21/2021
trans-1,2-Dichloroethene	20.0	ug/Kg	17.7	88.3	69.9 - 136		5/21/2021
trans-1,3-Dichloropropene	20.0	ug/Kg	17.2	86.0	45.4 - 117		5/21/2021
Trichloroethene	20.0	ug/Kg	19.2	95.9	74.2 - 120		5/21/2021
Trichlorofluoromethane	20.0	ug/Kg	18.3	91.6	48 - 159		5/21/2021
Vinyl chloride	20.0	ug/Kg	16.8	83.9	61 - 136		5/21/2021

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Report Prepared Monday, May 24, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: Soil

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z01775.D

QC Number: LCS 1

QC Batch ID: voainv210521

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, May 24, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: TCLP Fluid

TCLP Semi-Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,4-Dichlorobenzene	<40.0	ug/L		5/20/2021	16:46
2,4,5-Trichlorophenol	<40.0	ug/L		5/20/2021	16:46
2,4,6-Trichlorophenol	<40.0	ug/L		5/20/2021	16:46
2,4-Dinitrotoluene	<40.0	ug/L		5/20/2021	16:46
Cresols (as m,p,o-Cresol)	<80.0	ug/L		5/20/2021	16:46
Hexachlorobenzene	<40.0	ug/L		5/20/2021	16:46
Hexachlorobutadiene	<40.0	ug/L		5/20/2021	16:46
Hexachloroethane	<40.0	ug/L		5/20/2021	16:46
Nitrobenzene	<40.0	ug/L		5/20/2021	16:46
Pentachlorophenol	<80.0	ug/L		5/20/2021	16:46
Pyridine	<40.0	ug/L		5/20/2021	16:46

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**89.3**	56.5 - 119		5/20/2021	16:46
2-Fluorobiphenyl	**66.8**	38.9 - 93.8		5/20/2021	16:46
2-Fluorophenol	**83.8**	13.2 - 103		5/20/2021	16:46
Nitrobenzene-d5	**85.0**	43.1 - 104		5/20/2021	16:46
Phenol-d5	**75.3**	10 - 102		5/20/2021	16:46
Terphenyl-d14	**105**	51.8 - 109		5/20/2021	16:46

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/20/2021
Data File: B54305.D
QC Batch ID: QC210520ABNT
QC Number: 1

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: TCLP Fluid

TCLP Semi-Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,4-Dichlorobenzene	200	ug/L	118	59.0	27.4 - 93.2		5/20/2021
2,4,6-Trichlorophenol	300	ug/L	252	84.1	64.9 - 116		5/20/2021
2,4-Dinitrotoluene	200	ug/L	166	83.1	62.4 - 111		5/20/2021
Pentachlorophenol	300	ug/L	343	114	45 - 145		5/20/2021

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/20/2021
Data File: B54306.D
QC Number: 1
QC Batch ID: QC210520ABNT

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Friday, May 21, 2021

PARADIGM

ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

SDG #: 2155-01

Matrix: TCLP Fluid

TCLP Semi-Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,4-Dichlorobenzene	<40.0	ug/L		5/24/2021	12:52
2,4,5-Trichlorophenol	<40.0	ug/L		5/24/2021	12:52
2,4,6-Trichlorophenol	<40.0	ug/L		5/24/2021	12:52
2,4-Dinitrotoluene	<40.0	ug/L		5/24/2021	12:52
Cresols (as m,p,o-Cresol)	<80.0	ug/L		5/24/2021	12:52
Hexachlorobenzene	<40.0	ug/L		5/24/2021	12:52
Hexachlorobutadiene	<40.0	ug/L		5/24/2021	12:52
Hexachloroethane	<40.0	ug/L		5/24/2021	12:52
Nitrobenzene	<40.0	ug/L		5/24/2021	12:52
Pentachlorophenol	<80.0	ug/L		5/24/2021	12:52
Pyridine	<40.0	ug/L		5/24/2021	12:52

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**84.9**	56.5 - 119		5/24/2021	12:52
2-Fluorobiphenyl	**67.7**	38.9 - 93.8		5/24/2021	12:52
2-Fluorophenol	**70.6**	13.2 - 103		5/24/2021	12:52
Nitrobenzene-d5	**79.4**	43.1 - 104		5/24/2021	12:52
Phenol-d5	**66.7**	10 - 102		5/24/2021	12:52
Terphenyl-d14	**89.7**	51.8 - 109		5/24/2021	12:52

Method Reference(s): EPA 8270D
EPA 3510C

Preparation Date: 5/24/2021

Data File: B54398.D

QC Batch ID: QC210524ABNT

QC Number: 1

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 212155
SDG #: 2155-01
Matrix: TCLP Fluid

TCLP Semi-Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,4-Dichlorobenzene	200	ug/L	149	74.5	27.4 - 93.2		5/24/2021
2,4,6-Trichlorophenol	300	ug/L	291	96.9	64.9 - 116		5/24/2021
2,4-Dinitrotoluene	200	ug/L	177	88.6	62.4 - 111		5/24/2021
Pentachlorophenol	300	ug/L	375	125	45 - 145		5/24/2021

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/24/2021
Data File: B54399.D
QC Number: 1
QC Batch ID: QC210524ABNT

Report Prepared Tuesday, May 25, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: TCLP Fluid

TCLP Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1-Dichloroethene	<20.0	ug/L		5/20/2021	11:58
1,2-Dichloroethane	<20.0	ug/L		5/20/2021	11:58
2-Butanone	<100	ug/L		5/20/2021	11:58
Benzene	<20.0	ug/L		5/20/2021	11:58
Carbon Tetrachloride	<20.0	ug/L		5/20/2021	11:58
Chlorobenzene	<20.0	ug/L		5/20/2021	11:58
Chloroform	<20.0	ug/L		5/20/2021	11:58
Tetrachloroethene	<20.0	ug/L		5/20/2021	11:58
Trichloroethene	<20.0	ug/L		5/20/2021	11:58
Vinyl chloride	<20.0	ug/L		5/20/2021	11:58

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**96.5**	64 - 142		5/20/2021	11:58
4-Bromofluorobenzene	**86.4**	37.2 - 146		5/20/2021	11:58
Pentafluorobenzene	**101**	91.4 - 114		5/20/2021	11:58
Toluene-D8	**92.1**	73.1 - 120		5/20/2021	11:58

Method Reference(s): EPA 8260C
EPA 5030

Data File: z01738.D

QC Batch ID: voax210520

QC Number: Blk 1

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: TCLP Fluid

TCLP Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,1-Dichloroethene	20.0	ug/L	17.9	89.3	63.5 - 125		5/20/2021
1,2-Dichloroethane	20.0	ug/L	19.5	97.3	64.1 - 144		5/20/2021
Benzene	20.0	ug/L	19.6	98.0	74 - 132		5/20/2021
Carbon Tetrachloride	20.0	ug/L	20.3	102	61.3 - 135		5/20/2021
Chlorobenzene	20.0	ug/L	18.4	92.2	72.5 - 129		5/20/2021
Chloroform	20.0	ug/L	19.9	99.7	65.5 - 137		5/20/2021
Tetrachloroethene	20.0	ug/L	17.5	87.3	70.9 - 128		5/20/2021
Trichloroethene	20.0	ug/L	20.4	102	72.2 - 121		5/20/2021
Vinyl chloride	20.0	ug/L	17.6	88.1	60.3 - 137		5/20/2021

Method Reference(s): EPA 8260C
EPA 5030

Data File: z01737.D

QC Number: LCS 1

QC Batch ID: voax210520

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, May 20, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Matrix Spike and Matrix Spike Duplicate

Client: Inventum Engineering, P.C.
Lab Project ID: 212155

Project Reference: Riverview

Lab Sample ID: 212155-02A
Sample Identifier: SD-BCP-ST10SE-12
Matrix: TCLP Extract

Date Sampled: 5/17/2021
Date Received: 5/18/2021
Date Analyzed: 5/20/2021

TCLP Volatile Organics

Analyte	Sample Result	Result Units	MS Added	MS Result	MS % Recovery	MSD Added	MSD Result	MSD % Recovery	% Rec. Limits	MS Outlier	MSD Outlier	Relative % Diff.	RPD Limit	RPD Outlier
1,1-Dichloroethene	< 20.0	ug/L	500	350	70.1	500	347	69.4	63.5 - 125			1.01	34.8	
1,2-Dichloroethane	< 20.0	ug/L	500	490	98.0	500	504	101	64.1 - 144			2.90	36.4	
Benzene	< 20.0	ug/L	500	432	86.4	500	428	85.6	74 - 132			0.929	26.7	
Carbon Tetrachloride	< 20.0	ug/L	500	405	81.0	500	400	80.0	61.3 - 135			1.23	42.2	
Chlorobenzene	< 20.0	ug/L	500	438	87.6	500	444	88.7	72.5 - 129			1.20	25	
Chloroform	< 20.0	ug/L	500	464	92.9	500	465	93.0	65.5 - 137			0.162	34.6	
Tetrachloroethene	< 20.0	ug/L	500	370	74.0	500	381	76.1	70.9 - 128			2.78	26.6	
Trichloroethene	< 20.0	ug/L	500	425	84.9	500	426	85.1	72.2 - 121			0.232	26.2	
Vinyl chloride	< 20.0	ug/L	500	337	67.5	500	324	64.8	60.3 - 137			4.04	30.6	

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File(s): z01746.D
z01747.D
z01745.D
1

QC Batch ID: voax210520

Any estimated values are displayed, and derived values calculated, based on numeric result only. See primary analytical report for data flags.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, May 20, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 212155

Matrix: TCLP Fluid

TCLP Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Dichloroethene	<20.0	ug/L		5/24/2021 11:56
1,2-Dichloroethane	<20.0	ug/L		5/24/2021 11:56
2-Butanone	<100	ug/L		5/24/2021 11:56
Benzene	<20.0	ug/L		5/24/2021 11:56
Carbon Tetrachloride	<20.0	ug/L		5/24/2021 11:56
Chlorobenzene	<20.0	ug/L		5/24/2021 11:56
Chloroform	<20.0	ug/L		5/24/2021 11:56
Tetrachloroethene	<20.0	ug/L		5/24/2021 11:56
Trichloroethene	<20.0	ug/L		5/24/2021 11:56
Vinyl chloride	<20.0	ug/L		5/24/2021 11:56

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**94.9**	64 - 142		5/24/2021 11:56
4-Bromofluorobenzene	**85.1**	37.2 - 146		5/24/2021 11:56
Pentafluorobenzene	**99.0**	91.4 - 114		5/24/2021 11:56
Toluene-D8	**91.6**	73.1 - 120		5/24/2021 11:56

Method Reference(s): EPA 8260C
EPA 5030

Data File: z01814.D

QC Batch ID: voax210524

QC Number: Blk 1

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 212155
Matrix: TCLP Fluid

TCLP Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,1-Dichloroethene	20.0	ug/L	17.7	88.5	63.5 - 125		5/24/2021
1,2-Dichloroethane	20.0	ug/L	18.9	94.3	64.1 - 144		5/24/2021
Benzene	20.0	ug/L	19.3	96.7	74 - 132		5/24/2021
Carbon Tetrachloride	20.0	ug/L	21.8	109	61.3 - 135		5/24/2021
Chlorobenzene	20.0	ug/L	19.0	95.1	72.5 - 129		5/24/2021
Chloroform	20.0	ug/L	20.4	102	65.5 - 137		5/24/2021
Tetrachloroethene	20.0	ug/L	17.9	89.4	70.9 - 128		5/24/2021
Trichloroethene	20.0	ug/L	18.9	94.3	72.2 - 121		5/24/2021
Vinyl chloride	20.0	ug/L	16.4	82.2	60.3 - 137		5/24/2021

Method Reference(s): EPA 8260C
EPA 5030
Data File: z01813.D
QC Number: LCS 1
QC Batch ID: voax210524

Report Prepared *Monday, May 24, 2021*

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified “reported as received”. Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an “A” suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

“<” = Analyzed for but not detected at or above the quantitation limit.
“E” = Result has been estimated, calibration limit exceeded.
“H” = Denotes a parameter analyzed outside of holding time.
“Z” = See case narrative.
“D” = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
“M” = Matrix spike recoveries outside QC limits. Matrix bias indicated.
“B” = Method blank contained trace levels of analyte. Refer to included method blank report.
“J” = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
“P” = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM

Client Inventum pertinent mw 5/18/21

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT: John Black		CLIENT: Same		212155
ADDRESS: 481 Carlisle Dr.		ADDRESS:		Quotation #:
CITY: Herndon STATE: VA ZIP 20170		CITY: STATE: ZIP:		
PHONE: (571)217-6761		PHONE:		Email: john.black@inventumeng.com keith.adderley@inventumeng.com
ATTN: John Black		ATTN:		

PROJECT REFERENCE

Riverview

Matrix Codes:

AQ - Aqueous Liquid; **NQ** - Non-Aqueous Liquid; **WA** - Water; **WG** - Groundwater; **DW** - Drinking Water; **WW** - Wastewater; **SO** - Soil; **SL** - Sludge; **SD** - Solid; **PT** - Paint; **WP** - Wipe; **CK** - Caulk; **OL** - Oil; **AR** - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCLP VOCs/SVOCs	TCLP Metals	Pesticides	PCBs	Ignitability	Corrosivity	Reactivity	TCL VOCs/SVOCs	TAL Metals	REMARKS	PARADIGM LAB SAMPLE NUMBER
5/17/21	3:30pm			SD-BCP-ST10SE-01 soil	SD	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	Aft TCLP extract mw 5/18/21	01A
				SD-BCP-ST10SE-12	SD	4	✓	✓	✓	✓	✓	✓	✓	✓	✓		02A
				SD-BCP-ST10NW-01	SD	4	✓	✓	✓	✓	✓	✓	✓	✓	✓		03A
				SD-BCP-ST10NW-12	SD	4	✓	✓	✓	✓	✓	✓	✓	✓	✓		04A
				per visual mw 5/18/21													

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	✓	None Required		None Required	
10 day		Batch QC	✓	Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	✓
Rush 2 day		Category B			
Rush 1 day					
Date Needed _____ please indicate date needed:		Other please indicate package needed:		Other EDD please indicate EDD needed :	

Keith Adderley — Sampled By — 5/18/21 — Date/Time

Keith Adderley — Relinquished By — 5/18/21 — Date/Time

Brian Zack — Received By — 5-18-21 2:00 — Date/Time

Molly Wall — Received @ Lab By — 5/18/21 1629 — Date/Time

4°C iced 5/18/21 16:15

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: Inventum **Completed by:** MLK

Lab Project ID: 212155 **Date:** 5/18/21

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	☑	☐	☐
Comments			
Transferred to method-compliant container	☐	☐	☑
Headspace (<1 mL)	☑ tcup VOA	☐	☑
Comments			
Preservation	☐	☐	☑
Comments			
Chlorine Absent (<0.10 ppm per test strip)	☐	☐	☑
Comments			
Holding Time	☑	☐	☐
Comments			
Temperature	☑	☐	☑ met
Comments	4°C; cad		
Compliant Sample Quantity/Type	☑	☐	☐
Comments			

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Inventum Engineering, P.C.

For Lab Project ID

222262

Referencing

ST10 Excavation & Concrete

Prepared

Monday, September 22, 2025

This project has been re-issued to include additional compounds, per client request.

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below:

Portions of the enclosed report reflects analysis that has been subcontracted and are presented in their original form.

Emily Farmer

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 222262

Client: **Inventum Engineering, P.C.**

Project Reference: ST10 Excavation & Concrete

Sample Identifier:	ST10 - Soil - 05132022		
Lab Sample ID:	222262-01	**Date Sampled:**	5/13/2022 9:30
Matrix:	Soil	**Date Received**	5/17/2022

Corrosivity as pH

Analyte	Result	Units	Qualifier	Date Analyzed
Corrosivity (as pH)	7.07 @ 20.9 C	S.U.		5/19/2022 13:14

Method Reference(s): EPA 9045D

Ignitability

Analyte	Result	Units	Qualifier	Date Analyzed
Ignitability	No Burn	mm / sec		5/18/2022

Method Reference(s): EPA 1030

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.398**	mg/Kg		5/19/2022 11:38

Method Reference(s): EPA 7471B
Preparation Date: 5/19/2022
Data File: Hg220519A

Paint Filter Test

Analyte	Result	Units	Qualifier	Date Analyzed
Paint Filter Test	Pass	N/A		5/18/2022

Method Reference(s): EPA 9095B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.185	mg/Kg		5/19/2022 21:41
PCB-1221	< 0.185	mg/Kg		5/19/2022 21:41
PCB-1232	< 0.185	mg/Kg		5/19/2022 21:41
PCB-1242	< 0.185	mg/Kg		5/19/2022 21:41
PCB-1248	< 0.185	mg/Kg		5/19/2022 21:41
PCB-1254	< 0.185	mg/Kg		5/19/2022 21:41
PCB-1260	< 0.185	mg/Kg		5/19/2022 21:41

Sample Identifier: ST10 - Soil - 05132022
Lab Sample ID: 222262-01 **Date Sampled:** 5/13/2022 9:30
Matrix: Soil **Date Received** 5/17/2022

PCB-1262	< 0.185	mg/Kg		5/19/2022 21:41
PCB-1268	< 0.185	mg/Kg		5/19/2022 21:41

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**58.4**	12.7 - 101		5/19/2022 21:41

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 5/18/2022

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**81.1**	%		5/18/2022

Method Reference(s): Par%M
ELAP does not offer this test for approval as part of their laboratory certification program.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 1710	ug/Kg		5/19/2022 17:00
1,2,4,5-Tetrachlorobenzene	< 1710	ug/Kg		5/19/2022 17:00
1,2,4-Trichlorobenzene	< 1710	ug/Kg		5/19/2022 17:00
1,2-Dichlorobenzene	< 1710	ug/Kg		5/19/2022 17:00
1,3-Dichlorobenzene	< 1710	ug/Kg		5/19/2022 17:00
1,4-Dichlorobenzene	< 1710	ug/Kg		5/19/2022 17:00
2,2-Oxybis (1-chloropropane)	< 1710	ug/Kg		5/19/2022 17:00
2,3,4,6-Tetrachlorophenol	< 1710	ug/Kg		5/19/2022 17:00
2,4,5-Trichlorophenol	< 1710	ug/Kg		5/19/2022 17:00
2,4,6-Trichlorophenol	< 1710	ug/Kg		5/19/2022 17:00
2,4-Dichlorophenol	< 1710	ug/Kg		5/19/2022 17:00
2,4-Dimethylphenol	< 1710	ug/Kg		5/19/2022 17:00
2,4-Dinitrophenol	< 6850	ug/Kg		5/19/2022 17:00
2,4-Dinitrotoluene	< 1710	ug/Kg		5/19/2022 17:00
2,6-Dinitrotoluene	< 1710	ug/Kg		5/19/2022 17:00
2-Chloronaphthalene	< 1710	ug/Kg		5/19/2022 17:00

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 222262

Client: **Inventum Engineering, P.C.**

Project Reference: ST10 Excavation & Concrete

Sample Identifier: ST10 - Soil - 05132022
Lab Sample ID: 222262-01 **Date Sampled:** 5/13/2022 9:30
Matrix: Soil **Date Received** 5/17/2022

2-Chlorophenol	< 1710	ug/Kg	5/19/2022	17:00
2-Methylnapthalene	< 1710	ug/Kg	5/19/2022	17:00
2-Methylphenol	< 1710	ug/Kg	5/19/2022	17:00
2-Nitroaniline	< 1710	ug/Kg	5/19/2022	17:00
2-Nitrophenol	< 1710	ug/Kg	5/19/2022	17:00
3&4-Methylphenol	< 1710	ug/Kg	5/19/2022	17:00
3,3'-Dichlorobenzidine	< 1710	ug/Kg	5/19/2022	17:00
3-Nitroaniline	< 1710	ug/Kg	5/19/2022	17:00
4,6-Dinitro-2-methylphenol	< 2290	ug/Kg	5/19/2022	17:00
4-Bromophenyl phenyl ether	< 1710	ug/Kg	5/19/2022	17:00
4-Chloro-3-methylphenol	< 1710	ug/Kg	5/19/2022	17:00
4-Chloroaniline	< 1710	ug/Kg	5/19/2022	17:00
4-Chlorophenyl phenyl ether	< 1710	ug/Kg	5/19/2022	17:00
4-Nitroaniline	< 1710	ug/Kg	5/19/2022	17:00
4-Nitrophenol	< 1710	ug/Kg	5/19/2022	17:00
Acenaphthene	< 1710	ug/Kg	5/19/2022	17:00
Acenaphthylene	< 1710	ug/Kg	5/19/2022	17:00
Acetophenone	< 1710	ug/Kg	5/19/2022	17:00
Anthracene	**2270**	ug/Kg	5/19/2022	17:00
Atrazine	< 1710	ug/Kg	5/19/2022	17:00
Benzaldehyde	< 1710	ug/Kg	5/19/2022	17:00
Benzo (a) anthracene	**11400**	ug/Kg	5/19/2022	17:00
Benzo (a) pyrene	**11000**	ug/Kg	5/19/2022	17:00
Benzo (b) fluoranthene	**11500**	ug/Kg	5/19/2022	17:00
Benzo (g,h,i) perylene	**6980**	ug/Kg	5/19/2022	17:00
Benzo (k) fluoranthene	**6590**	ug/Kg	5/19/2022	17:00
Bis (2-chloroethoxy) methane	< 1710	ug/Kg	5/19/2022	17:00
Bis (2-chloroethyl) ether	< 1710	ug/Kg	5/19/2022	17:00
Bis (2-ethylhexyl) phthalate	< 1710	ug/Kg	5/19/2022	17:00
Butylbenzylphthalate	< 1710	ug/Kg	5/19/2022	17:00

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 222262

Client: **Inventum Engineering, P.C.**

Project Reference: ST10 Excavation & Concrete

Sample Identifier: ST10 - Soil - 05132022
Lab Sample ID: 222262-01 **Date Sampled:** 5/13/2022 9:30
Matrix: Soil **Date Received** 5/17/2022

Caprolactam	< 1710	ug/Kg	5/19/2022	17:00
Carbazole	< 1710	ug/Kg	5/19/2022	17:00
Chrysene	**13700**	ug/Kg	5/19/2022	17:00
Dibenz (a,h) anthracene	**3250**	ug/Kg	5/19/2022	17:00
Dibenzofuran	< 1710	ug/Kg	5/19/2022	17:00
Diethyl phthalate	< 1710	ug/Kg	5/19/2022	17:00
Dimethyl phthalate	< 1710	ug/Kg	5/19/2022	17:00
Di-n-butyl phthalate	< 1710	ug/Kg	5/19/2022	17:00
Di-n-octylphthalate	< 1710	ug/Kg	5/19/2022	17:00
Fluoranthene	**24400**	ug/Kg	5/19/2022	17:00
Fluorene	< 1710	ug/Kg	5/19/2022	17:00
Hexachlorobenzene	< 1710	ug/Kg	5/19/2022	17:00
Hexachlorobutadiene	< 1710	ug/Kg	5/19/2022	17:00
Hexachlorocyclopentadiene	< 6850	ug/Kg	5/19/2022	17:00
Hexachloroethane	< 1710	ug/Kg	5/19/2022	17:00
Indeno (1,2,3-cd) pyrene	**9690**	ug/Kg	5/19/2022	17:00
Isophorone	< 1710	ug/Kg	5/19/2022	17:00
Naphthalene	**2570**	ug/Kg	5/19/2022	17:00
Nitrobenzene	< 1710	ug/Kg	5/19/2022	17:00
N-Nitroso-di-n-propylamine	< 1710	ug/Kg	5/19/2022	17:00
N-Nitrosodiphenylamine	< 1710	ug/Kg	5/19/2022	17:00
Pentachlorophenol	< 3430	ug/Kg	5/19/2022	17:00
Phenanthrene	**10500**	ug/Kg	5/19/2022	17:00
Phenol	< 1710	ug/Kg	5/19/2022	17:00
Pyrene	**20900**	ug/Kg	5/19/2022	17:00

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 222262

Client: **Inventum Engineering, P.C.**

Project Reference: ST10 Excavation & Concrete

Sample Identifier: ST10 - Soil - 05132022
Lab Sample ID: 222262-01 **Date Sampled:** 5/13/2022 9:30
Matrix: Soil **Date Received** 5/17/2022

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**55.5**	35.4 - 92.4		5/19/2022 17:00
2-Fluorobiphenyl	**61.9**	39.6 - 84.4		5/19/2022 17:00
2-Fluorophenol	**47.9**	35.5 - 78.9		5/19/2022 17:00
Nitrobenzene-d5	**57.0**	36.5 - 78.2		5/19/2022 17:00
Phenol-d5	**49.6**	37.1 - 78.3		5/19/2022 17:00
Terphenyl-d14	**71.8**	42.3 - 103		5/19/2022 17:00

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/18/2022
Data File: B61903.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1,2-Tetrachloroethane	< 9.71	ug/Kg		5/23/2022 12:30
1,1,1-Trichloroethane	< 9.71	ug/Kg		5/23/2022 12:30
1,1,2,2-Tetrachloroethane	< 9.71	ug/Kg		5/23/2022 12:30
1,1,2-Trichloroethane	< 9.71	ug/Kg		5/23/2022 12:30
1,1-Dichloroethane	< 9.71	ug/Kg		5/23/2022 12:30
1,1-Dichloroethene	< 9.71	ug/Kg		5/23/2022 12:30
1,1-Dichloropropene	< 9.71	ug/Kg		5/23/2022 12:30
1,2,3-Trichlorobenzene	< 24.3	ug/Kg		5/23/2022 12:30
1,2,3-Trichloropropane	< 9.71	ug/Kg		5/23/2022 12:30
1,2,4-Trichlorobenzene	< 24.3	ug/Kg		5/23/2022 12:30
1,2,4-Trimethylbenzene	< 9.71	ug/Kg		5/23/2022 12:30
1,2-Dibromo-3-Chloropropane	< 48.5	ug/Kg		5/23/2022 12:30
1,2-Dibromoethane	< 9.71	ug/Kg		5/23/2022 12:30
1,2-Dichlorobenzene	< 9.71	ug/Kg		5/23/2022 12:30
1,2-Dichloroethane	< 9.71	ug/Kg		5/23/2022 12:30
1,2-Dichloropropane	< 9.71	ug/Kg		5/23/2022 12:30
1,3,5-Trimethylbenzene	< 9.71	ug/Kg		5/23/2022 12:30
1,3-Dichlorobenzene	< 9.71	ug/Kg		5/23/2022 12:30

Sample Identifier: ST10 - Soil - 05132022
Lab Sample ID: 222262-01 **Date Sampled:** 5/13/2022 9:30
Matrix: Soil **Date Received** 5/17/2022

1,3-Dichloropropane	< 9.71	ug/Kg	5/23/2022	12:30
1,4-Dichlorobenzene	< 9.71	ug/Kg	5/23/2022	12:30
1,4-Dioxane	< 48.5	ug/Kg	5/23/2022	12:30
2,2-Dichloropropane	< 9.71	ug/Kg	5/23/2022	12:30
2-Butanone	< 48.5	ug/Kg	5/23/2022	12:30
2-Chlorotoluene	< 9.71	ug/Kg	5/23/2022	12:30
2-Hexanone	< 24.3	ug/Kg	5/23/2022	12:30
4-Chlorotoluene	< 9.71	ug/Kg	5/23/2022	12:30
4-Methyl-2-pentanone	< 24.3	ug/Kg	5/23/2022	12:30
Acetone	< 48.5	ug/Kg	5/23/2022	12:30
Benzene	< 9.71	ug/Kg	5/23/2022	12:30
Bromobenzene	< 24.3	ug/Kg	5/23/2022	12:30
Bromochloromethane	< 24.3	ug/Kg	5/23/2022	12:30
Bromodichloromethane	< 9.71	ug/Kg	5/23/2022	12:30
Bromoform	< 24.3	ug/Kg	5/23/2022	12:30
Bromomethane	< 9.71	ug/Kg	5/23/2022	12:30
Carbon disulfide	< 9.71	ug/Kg	5/23/2022	12:30
Carbon Tetrachloride	< 9.71	ug/Kg	5/23/2022	12:30
Chlorobenzene	< 9.71	ug/Kg	5/23/2022	12:30
Chloroethane	< 9.71	ug/Kg	5/23/2022	12:30
Chloroform	< 9.71	ug/Kg	5/23/2022	12:30
Chloromethane	< 9.71	ug/Kg	5/23/2022	12:30
cis-1,2-Dichloroethene	< 9.71	ug/Kg	5/23/2022	12:30
cis-1,3-Dichloropropene	< 9.71	ug/Kg	5/23/2022	12:30
Cyclohexane	< 48.5	ug/Kg	5/23/2022	12:30
Dibromochloromethane	< 9.71	ug/Kg	5/23/2022	12:30
Dibromomethane	< 9.71	ug/Kg	5/23/2022	12:30
Dichlorodifluoromethane	< 9.71	ug/Kg	5/23/2022	12:30
Ethylbenzene	< 9.71	ug/Kg	5/23/2022	12:30
Freon 113	< 9.71	ug/Kg	5/23/2022	12:30

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 222262

Client: **Inventum Engineering, P.C.**

Project Reference: ST10 Excavation & Concrete

Sample Identifier: ST10 - Soil - 05132022
Lab Sample ID: 222262-01 **Date Sampled:** 5/13/2022 9:30
Matrix: Soil **Date Received** 5/17/2022

Isopropylbenzene	< 9.71	ug/Kg	5/23/2022	12:30
m,p-Xylene	< 9.71	ug/Kg	5/23/2022	12:30
Methyl acetate	< 9.71	ug/Kg	5/23/2022	12:30
Methyl tert-butyl Ether	< 9.71	ug/Kg	5/23/2022	12:30
Methylcyclohexane	< 9.71	ug/Kg	5/23/2022	12:30
Methylene chloride	< 24.3	ug/Kg	5/23/2022	12:30
Naphthalene	< 24.3	ug/Kg	5/23/2022	12:30
n-Butylbenzene	< 9.71	ug/Kg	5/23/2022	12:30
n-Propylbenzene	< 9.71	ug/Kg	5/23/2022	12:30
o-Xylene	< 9.71	ug/Kg	5/23/2022	12:30
p-Isopropyltoluene	< 9.71	ug/Kg	5/23/2022	12:30
sec-Butylbenzene	< 9.71	ug/Kg	5/23/2022	12:30
Styrene	< 24.3	ug/Kg	5/23/2022	12:30
tert-Butylbenzene	< 9.71	ug/Kg	5/23/2022	12:30
Tetrachloroethene	< 9.71	ug/Kg	5/23/2022	12:30
Toluene	< 9.71	ug/Kg	5/23/2022	12:30
trans-1,2-Dichloroethene	< 9.71	ug/Kg	5/23/2022	12:30
trans-1,3-Dichloropropene	< 9.71	ug/Kg	5/23/2022	12:30
Trichloroethene	< 9.71	ug/Kg	5/23/2022	12:30
Trichlorofluoromethane	< 9.71	ug/Kg	5/23/2022	12:30
Vinyl chloride	< 9.71	ug/Kg	5/23/2022	12:30

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**81.4**	74.7 - 140	*	5/23/2022	12:30
4-Bromofluorobenzene	**84.2**	68 - 130		5/23/2022	12:30
Pentafluorobenzene	**103**	70.3 - 140		5/23/2022	12:30
Toluene-D8	**96.5**	69 - 138		5/23/2022	12:30

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z09390.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 222262

Client: **Inventum Engineering, P.C.**

Project Reference: ST10 Excavation & Concrete

Sample Identifier:	ST10 - Soil - 05132022		
Lab Sample ID:	222262-01A	**Date Sampled:**	5/13/2022 9:30
Matrix:	TCLP Extract	**Date Received**	5/17/2022

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	< 0.00200	mg/L	0.2		5/23/2022 13:54

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 5/23/2022
Data File: Hg220523A

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		5/23/2022 13:47
1,2-Dichloroethane	< 20.0	ug/L	500		5/23/2022 13:47
2-Butanone	< 100	ug/L	200000		5/23/2022 13:47
Benzene	< 20.0	ug/L	500		5/23/2022 13:47
Carbon Tetrachloride	< 20.0	ug/L	500		5/23/2022 13:47
Chlorobenzene	< 20.0	ug/L	100000		5/23/2022 13:47
Chloroform	< 20.0	ug/L	6000		5/23/2022 13:47
Tetrachloroethene	< 20.0	ug/L	700		5/23/2022 13:47
Trichloroethene	< 20.0	ug/L	500		5/23/2022 13:47
Vinyl chloride	< 20.0	ug/L	200		5/23/2022 13:47

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**89.4**	81.1 - 136		5/23/2022 13:47
4-Bromofluorobenzene	**90.3**	75.8 - 132		5/23/2022 13:47
Pentafluorobenzene	**102**	82 - 132		5/23/2022 13:47
Toluene-D8	**101**	64.6 - 137		5/23/2022 13:47

Method Reference(s): EPA 8260C
EPA 1311 / 5030C
Data File: z09394.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 222262

Client: **Inventum Engineering, P.C.**

Project Reference: ST10 Excavation & Concrete

Sample Identifier: ST10 - Concrete - 05132022
Lab Sample ID: 222262-02 **Date Sampled:** 5/13/2022 9:30
Matrix: Solid **Date Received** 5/17/2022

Corrosivity as pH

Analyte	Result	Units	Qualifier	Date Analyzed
Corrosivity (as pH)	11.50 @ 21.0 C	S.U.		5/19/2022 13:15

Method Reference(s): EPA 9045D

Paint Filter Test

Analyte	Result	Units	Qualifier	Date Analyzed
Paint Filter Test	Pass	N/A		5/18/2022

Method Reference(s): EPA 9095B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.163	mg/Kg		5/19/2022 22:05
PCB-1221	< 0.163	mg/Kg		5/19/2022 22:05
PCB-1232	< 0.163	mg/Kg		5/19/2022 22:05
PCB-1242	< 0.163	mg/Kg		5/19/2022 22:05
PCB-1248	< 0.163	mg/Kg		5/19/2022 22:05
PCB-1254	< 0.163	mg/Kg		5/19/2022 22:05
PCB-1260	< 0.163	mg/Kg		5/19/2022 22:05
PCB-1262	< 0.163	mg/Kg		5/19/2022 22:05
PCB-1268	< 0.163	mg/Kg		5/19/2022 22:05

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**81.0**	12.7 - 101		5/19/2022 22:05

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 5/18/2022

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 222262

Client: **Inventum Engineering, P.C.**

Project Reference: ST10 Excavation & Concrete

Sample Identifier: ST10 - Concrete - 05132022
Lab Sample ID: 222262-02A **Date Sampled:** 5/13/2022 9:30
Matrix: TCLP Extract **Date Received** 5/17/2022

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	< 0.00200	mg/L	0.2		5/23/2022 13:56

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 5/23/2022
Data File: Hg220523A

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		5/23/2022 14:06
1,2-Dichloroethane	< 20.0	ug/L	500		5/23/2022 14:06
2-Butanone	< 100	ug/L	200000		5/23/2022 14:06
Benzene	< 20.0	ug/L	500		5/23/2022 14:06
Carbon Tetrachloride	< 20.0	ug/L	500		5/23/2022 14:06
Chlorobenzene	< 20.0	ug/L	100000		5/23/2022 14:06
Chloroform	< 20.0	ug/L	6000		5/23/2022 14:06
Tetrachloroethene	< 20.0	ug/L	700		5/23/2022 14:06
Trichloroethene	< 20.0	ug/L	500		5/23/2022 14:06
Vinyl chloride	< 20.0	ug/L	200		5/23/2022 14:06

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**97.5**	81.1 - 136		5/23/2022 14:06
4-Bromofluorobenzene	**87.6**	75.8 - 132		5/23/2022 14:06
Pentafluorobenzene	**100**	82 - 132		5/23/2022 14:06
Toluene-D8	**99.9**	64.6 - 137		5/23/2022 14:06

Method Reference(s): EPA 8260C
EPA 1311 / 5030C
Data File: z09395.D

PARADIGM

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ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: ST08 Excavation & Concrete

Lab Project ID: 222262

Matrix: Soil

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	<0.00731	mg/Kg		5/19/2022 11:22

Method Reference(s): EPA 7471B
Preparation Date: 5/19/2022
Data File: Hg220519A
QC Batch ID: QC220519HgSoil
QC Number: Blk 1

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, May 23, 2022

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Inventum Engineering, P.C.

Project Reference: ST08 Excavation & Concrete

Lab Project ID: 222262

Matrix: Soil

Mercury

Analyte	LCS Added	LCSD Added	Spike Units	LCS Result	LCSD Result	LCS % Recovery	LCSD % Recovery	% Rec Limits	LCS Outliers	LCSD Outliers	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Mercury	0.0719	0.0709	mg/Kg	0.0793	0.0777	110	110	80 - 120			0.595	20		5/19/2022

Method Reference(s): EPA 7471B
Preparation Date: 5/19/2022
Data File: Hg220519A
QC Number: 1
QC Batch ID: QC220519HgSoil

Report Prepared Monday, May 23, 2022

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: ST08 Excavation & Concrete

Lab Project ID: 222262

Matrix: Soil

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	<0.0282	mg/Kg		5/19/2022 01:51
PCB-1221	<0.0282	mg/Kg		5/19/2022 01:51
PCB-1232	<0.0282	mg/Kg		5/19/2022 01:51
PCB-1242	<0.0282	mg/Kg		5/19/2022 01:51
PCB-1248	<0.0282	mg/Kg		5/19/2022 01:51
PCB-1254	<0.0282	mg/Kg		5/19/2022 01:51
PCB-1260	<0.0282	mg/Kg		5/19/2022 01:51
PCB-1262	<0.0282	mg/Kg		5/19/2022 01:51
PCB-1268	<0.0282	mg/Kg		5/19/2022 01:51

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**43.9**	12.7 - 101		5/19/2022 01:51

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/18/2022

QC Batch ID: QC220518PCBS1

QC Number: Blk 1

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Friday, May 20, 2022

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: ST08 Excavation & Concrete

Lab Project ID: 222262

Matrix: Soil

PCBs

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
PCB-1016/1260	0.142	mg/Kg	0.0714	50.2	10 - 102		5/19/2022

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 5/18/2022
QC Number: LCS 1
QC Batch ID: QC220518PCBS1

Report Prepared Friday, May 20, 2022

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: ST08 Excavation & Concrete

Lab Project ID: 222262

Matrix: Soil

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1-Biphenyl	<284	ug/Kg		5/19/2022	13:36
1,2,4,5-Tetrachlorobenzene	<284	ug/Kg		5/19/2022	13:36
1,2,4-Trichlorobenzene	<284	ug/Kg		5/19/2022	13:36
1,2-Dichlorobenzene	<284	ug/Kg		5/19/2022	13:36
1,3-Dichlorobenzene	<284	ug/Kg		5/19/2022	13:36
1,4-Dichlorobenzene	<284	ug/Kg		5/19/2022	13:36
2,2-Oxybis (1-chloropropane)	<284	ug/Kg		5/19/2022	13:36
2,3,4,6-Tetrachlorophenol	<284	ug/Kg		5/19/2022	13:36
2,4,5-Trichlorophenol	<284	ug/Kg		5/19/2022	13:36
2,4,6-Trichlorophenol	<284	ug/Kg		5/19/2022	13:36
2,4-Dichlorophenol	<284	ug/Kg		5/19/2022	13:36
2,4-Dimethylphenol	<284	ug/Kg		5/19/2022	13:36
2,4-Dinitrophenol	<1140	ug/Kg		5/19/2022	13:36
2,4-Dinitrotoluene	<284	ug/Kg		5/19/2022	13:36
2,6-Dinitrotoluene	<284	ug/Kg		5/19/2022	13:36
2-Chloronaphthalene	<284	ug/Kg		5/19/2022	13:36
2-Chlorophenol	<284	ug/Kg		5/19/2022	13:36
2-Methylnapthalene	<284	ug/Kg		5/19/2022	13:36
2-Methylphenol	<284	ug/Kg		5/19/2022	13:36
2-Nitroaniline	<284	ug/Kg		5/19/2022	13:36
2-Nitrophenol	<284	ug/Kg		5/19/2022	13:36
3&4-Methylphenol	<284	ug/Kg		5/19/2022	13:36
3,3'-Dichlorobenzidine	<284	ug/Kg		5/19/2022	13:36
3-Nitroaniline	<284	ug/Kg		5/19/2022	13:36
4,6-Dinitro-2-methylphenol	<568	ug/Kg		5/19/2022	13:36
4-Bromophenyl phenyl ether	<284	ug/Kg		5/19/2022	13:36
4-Chloro-3-methylphenol	<284	ug/Kg		5/19/2022	13:36

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: ST08 Excavation & Concrete

Lab Project ID: 222262

Matrix: Soil

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed	
4-Chloroaniline	<284	ug/Kg		5/19/2022	13:36
4-Chlorophenyl phenyl ether	<284	ug/Kg		5/19/2022	13:36
4-Nitroaniline	<284	ug/Kg		5/19/2022	13:36
4-Nitrophenol	<284	ug/Kg		5/19/2022	13:36
Acenaphthene	<284	ug/Kg		5/19/2022	13:36
Acenaphthylene	<284	ug/Kg		5/19/2022	13:36
Acetophenone	<284	ug/Kg		5/19/2022	13:36
Anthracene	<284	ug/Kg		5/19/2022	13:36
Atrazine	<284	ug/Kg		5/19/2022	13:36
Benzaldehyde	<284	ug/Kg		5/19/2022	13:36
Benzo (a) anthracene	<284	ug/Kg		5/19/2022	13:36
Benzo (a) pyrene	<284	ug/Kg		5/19/2022	13:36
Benzo (b) fluoranthene	<284	ug/Kg		5/19/2022	13:36
Benzo (g,h,i) perylene	<284	ug/Kg		5/19/2022	13:36
Benzo (k) fluoranthene	<284	ug/Kg		5/19/2022	13:36
Bis (2-chloroethoxy) methane	<284	ug/Kg		5/19/2022	13:36
Bis (2-chloroethyl) ether	<284	ug/Kg		5/19/2022	13:36
Bis (2-ethylhexyl) phthalate	<284	ug/Kg		5/19/2022	13:36
Butylbenzylphthalate	<284	ug/Kg		5/19/2022	13:36
Caprolactam	<284	ug/Kg		5/19/2022	13:36
Carbazole	<284	ug/Kg		5/19/2022	13:36
Chrysene	<284	ug/Kg		5/19/2022	13:36
Dibenz (a,h) anthracene	<284	ug/Kg		5/19/2022	13:36
Dibenzofuran	<284	ug/Kg		5/19/2022	13:36
Diethyl phthalate	<284	ug/Kg		5/19/2022	13:36
Dimethyl phthalate	<284	ug/Kg		5/19/2022	13:36
Di-n-butyl phthalate	<284	ug/Kg		5/19/2022	13:36
Di-n-octylphthalate	<284	ug/Kg		5/19/2022	13:36

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: ST08 Excavation & Concrete

Lab Project ID: 222262

Matrix: Soil

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed	
Fluoranthene	<284	ug/Kg		5/19/2022	13:36
Fluorene	<284	ug/Kg		5/19/2022	13:36
Hexachlorobenzene	<284	ug/Kg		5/19/2022	13:36
Hexachlorobutadiene	<284	ug/Kg		5/19/2022	13:36
Hexachlorocyclopentadiene	<1140	ug/Kg		5/19/2022	13:36
Hexachloroethane	<284	ug/Kg		5/19/2022	13:36
Indeno (1,2,3-cd) pyrene	<284	ug/Kg		5/19/2022	13:36
Isophorone	<284	ug/Kg		5/19/2022	13:36
Naphthalene	<284	ug/Kg		5/19/2022	13:36
Nitrobenzene	<284	ug/Kg		5/19/2022	13:36
N-Nitroso-di-n-propylamine	<284	ug/Kg		5/19/2022	13:36
N-Nitrosodiphenylamine	<284	ug/Kg		5/19/2022	13:36
Pentachlorophenol	<568	ug/Kg		5/19/2022	13:36
Phenanthrene	<284	ug/Kg		5/19/2022	13:36
Phenol	<284	ug/Kg		5/19/2022	13:36
Pyrene	<284	ug/Kg		5/19/2022	13:36

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	60.8	35.4 - 92.4		5/19/2022	13:36
2-Fluorobiphenyl	57.2	39.6 - 84.4		5/19/2022	13:36
2-Fluorophenol	55.7	35.5 - 78.9		5/19/2022	13:36
Nitrobenzene-d5	61.2	36.5 - 78.2		5/19/2022	13:36
Phenol-d5	56.8	37.1 - 78.3		5/19/2022	13:36
Terphenyl-d14	70.7	42.3 - 103		5/19/2022	13:36

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/18/2022
Data File: B61896.D
QC Batch ID: QC220518ABNS
QC Number: Blk 1

Report Prepared Monday, May 23, 2022

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.
Project Reference: ST08 Excavation & Concrete
Lab Project ID: 222262
Matrix: Soil

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,2,4-Trichlorobenzene	2820	ug/Kg	1730	61.4	36.4 - 88		5/19/2022
1,4-Dichlorobenzene	2820	ug/Kg	1530	54.3	34.3 - 78.9		5/19/2022
2,4-Dinitrotoluene	2820	ug/Kg	2070	73.4	40.2 - 99.7		5/19/2022
2-Chlorophenol	4240	ug/Kg	2800	66.1	49.5 - 80.8		5/19/2022
4-Chloro-3-methylphenol	4240	ug/Kg	3170	74.8	52.2 - 87.8		5/19/2022
4-Nitrophenol	4240	ug/Kg	3150	74.3	23.3 - 102		5/19/2022
Acenaphthene	2820	ug/Kg	1870	66.2	43.5 - 87.2		5/19/2022
N-Nitroso-di-n-propylamine	2820	ug/Kg	1770	62.8	32.6 - 89.2		5/19/2022
Pentachlorophenol	4240	ug/Kg	3710	87.6	41.8 - 107		5/19/2022
Phenol	4240	ug/Kg	2690	63.6	48.8 - 79.3		5/19/2022
Pyrene	2820	ug/Kg	2260	79.9	47.1 - 104		5/19/2022

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/18/2022
Data File: B61897.D
QC Number: LCS 1
QC Batch ID: QC220518ABNS

Report Prepared Monday, May 23, 2022

PARADIGM ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Inventum Engineering, P.C.**

Project Reference: ST10 Excavation & Concrete

Lab Project ID: 222262

Matrix: Soil

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1,2-Tetrachloroethane	<2.00	ug/Kg		5/23/2022	11:51
1,1,1-Trichloroethane	<2.00	ug/Kg		5/23/2022	11:51
1,1,2,2-Tetrachloroethane	<2.00	ug/Kg		5/23/2022	11:51
1,1,2-Trichloroethane	<2.00	ug/Kg		5/23/2022	11:51
1,1-Dichloroethane	<2.00	ug/Kg		5/23/2022	11:51
1,1-Dichloroethene	<2.00	ug/Kg		5/23/2022	11:51
1,1-Dichloropropene	<2.00	ug/Kg		5/23/2022	11:51
1,2,3-Trichlorobenzene	<5.00	ug/Kg		5/23/2022	11:51
1,2,3-Trichloropropane	<2.00	ug/Kg		5/23/2022	11:51
1,2,4-Trichlorobenzene	<5.00	ug/Kg		5/23/2022	11:51
1,2,4-Trimethylbenzene	<2.00	ug/Kg		5/23/2022	11:51
1,2-Dibromo-3-Chloropropane	<10.0	ug/Kg		5/23/2022	11:51
1,2-Dibromoethane	<2.00	ug/Kg		5/23/2022	11:51
1,2-Dichlorobenzene	<2.00	ug/Kg		5/23/2022	11:51
1,2-Dichloroethane	<2.00	ug/Kg		5/23/2022	11:51
1,2-Dichloropropane	<2.00	ug/Kg		5/23/2022	11:51
1,3,5-Trimethylbenzene	<2.00	ug/Kg		5/23/2022	11:51
1,3-Dichlorobenzene	<2.00	ug/Kg		5/23/2022	11:51
1,3-Dichloropropane	<2.00	ug/Kg		5/23/2022	11:51
1,4-Dichlorobenzene	<2.00	ug/Kg		5/23/2022	11:51
1,4-Dioxane	<10.0	ug/Kg		5/23/2022	11:51
2,2-Dichloropropane	<2.00	ug/Kg		5/23/2022	11:51
2-Butanone	<10.0	ug/Kg		5/23/2022	11:51
2-Chlorotoluene	<2.00	ug/Kg		5/23/2022	11:51
2-Hexanone	<5.00	ug/Kg		5/23/2022	11:51
4-Chlorotoluene	<2.00	ug/Kg		5/23/2022	11:51
4-Methyl-2-pentanone	<5.00	ug/Kg		5/23/2022	11:51

PARADIGM ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Inventum Engineering, P.C.**

Project Reference: ST10 Excavation & Concrete

Lab Project ID: 222262

Matrix: Soil

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
Acetone	<10.0	ug/Kg		5/23/2022	11:51
Benzene	<2.00	ug/Kg		5/23/2022	11:51
Bromobenzene	<5.00	ug/Kg		5/23/2022	11:51
Bromochloromethane	<5.00	ug/Kg		5/23/2022	11:51
Bromodichloromethane	<2.00	ug/Kg		5/23/2022	11:51
Bromoform	<5.00	ug/Kg		5/23/2022	11:51
Bromomethane	<2.00	ug/Kg		5/23/2022	11:51
Carbon disulfide	<2.00	ug/Kg		5/23/2022	11:51
Carbon Tetrachloride	<2.00	ug/Kg		5/23/2022	11:51
Chlorobenzene	<2.00	ug/Kg		5/23/2022	11:51
Chloroethane	<2.00	ug/Kg		5/23/2022	11:51
Chloroform	<2.00	ug/Kg		5/23/2022	11:51
Chloromethane	<2.00	ug/Kg		5/23/2022	11:51
cis-1,2-Dichloroethene	<2.00	ug/Kg		5/23/2022	11:51
cis-1,3-Dichloropropene	<2.00	ug/Kg		5/23/2022	11:51
Cyclohexane	<10.0	ug/Kg		5/23/2022	11:51
Dibromochloromethane	<2.00	ug/Kg		5/23/2022	11:51
Dibromomethane	<2.00	ug/Kg		5/23/2022	11:51
Dichlorodifluoromethane	<2.00	ug/Kg		5/23/2022	11:51
Ethylbenzene	<2.00	ug/Kg		5/23/2022	11:51
Freon 113	<2.00	ug/Kg		5/23/2022	11:51
Isopropylbenzene	<2.00	ug/Kg		5/23/2022	11:51
m,p-Xylene	<2.00	ug/Kg		5/23/2022	11:51
Methyl acetate	<2.00	ug/Kg		5/23/2022	11:51
Methyl tert-butyl Ether	<2.00	ug/Kg		5/23/2022	11:51
Methylcyclohexane	<2.00	ug/Kg		5/23/2022	11:51
Methylene chloride	<5.00	ug/Kg		5/23/2022	11:51
Naphthalene	<5.00	ug/Kg		5/23/2022	11:51

PARADIGM ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Inventum Engineering, P.C.**

Project Reference: ST10 Excavation & Concrete

Lab Project ID: 222262

Matrix: Soil

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
n-Butylbenzene	<2.00	ug/Kg		5/23/2022 11:51
n-Propylbenzene	<2.00	ug/Kg		5/23/2022 11:51
o-Xylene	<2.00	ug/Kg		5/23/2022 11:51
p-Isopropyltoluene	<2.00	ug/Kg		5/23/2022 11:51
sec-Butylbenzene	<2.00	ug/Kg		5/23/2022 11:51
Styrene	<5.00	ug/Kg		5/23/2022 11:51
tert-Butylbenzene	<2.00	ug/Kg		5/23/2022 11:51
Tetrachloroethene	<2.00	ug/Kg		5/23/2022 11:51
Toluene	<2.00	ug/Kg		5/23/2022 11:51
trans-1,2-Dichloroethene	<2.00	ug/Kg		5/23/2022 11:51
trans-1,3-Dichloropropene	<2.00	ug/Kg		5/23/2022 11:51
Trichloroethene	<2.00	ug/Kg		5/23/2022 11:51
Trichlorofluoromethane	<2.00	ug/Kg		5/23/2022 11:51
Vinyl chloride	<2.00	ug/Kg		5/23/2022 11:51

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**88.2**	86.3 - 115		5/23/2022 11:51
4-Bromofluorobenzene	**92.8**	80 - 112		5/23/2022 11:51
Pentafluorobenzene	**104**	90 - 110		5/23/2022 11:51
Toluene-D8	**101**	90 - 110		5/23/2022 11:51

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z09388.D

QC Batch ID: voas220523

QC Number: Blk 1

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.
Project Reference: ST08 Excavation & Concrete
Lab Project ID: 222262
Matrix: Soil

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,1,1-Trichloroethane	20.0	ug/Kg	18.4	92.1	70.9 - 135		5/23/2022
1,1,2,2-Tetrachloroethane	20.0	ug/Kg	15.4	77.1	31.6 - 154		5/23/2022
1,1,2-Trichloroethane	20.0	ug/Kg	14.8	73.9	62 - 132		5/23/2022
1,1-Dichloroethane	20.0	ug/Kg	18.2	91.1	73 - 128		5/23/2022
1,1-Dichloroethene	20.0	ug/Kg	18.5	92.6	61.7 - 119		5/23/2022
1,2-Dichlorobenzene	20.0	ug/Kg	19.1	95.4	61 - 118		5/23/2022
1,2-Dichloroethane	20.0	ug/Kg	15.8	79.1	73.4 - 123		5/23/2022
1,2-Dichloropropane	20.0	ug/Kg	17.2	86.0	71.3 - 123		5/23/2022
1,3-Dichlorobenzene	20.0	ug/Kg	19.7	98.5	68.7 - 112		5/23/2022
1,4-Dichlorobenzene	20.0	ug/Kg	19.2	96.0	66.9 - 113		5/23/2022
Benzene	20.0	ug/Kg	18.5	92.4	77.8 - 119		5/23/2022
Bromodichloromethane	20.0	ug/Kg	16.5	82.7	65.7 - 125		5/23/2022
Bromoform	20.0	ug/Kg	14.6	73.0	54.7 - 130		5/23/2022
Bromomethane	20.0	ug/Kg	18.8	94.0	44.6 - 167		5/23/2022
Carbon Tetrachloride	20.0	ug/Kg	18.4	91.8	61.8 - 138		5/23/2022
Chlorobenzene	20.0	ug/Kg	20.2	101	77.2 - 108		5/23/2022

Report Prepared Monday, May 23, 2022

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.
Project Reference: ST08 Excavation & Concrete
Lab Project ID: 222262
Matrix: Soil

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Chloroethane	20.0	ug/Kg	21.5	108	55.5 - 151		5/23/2022
Chloroform	20.0	ug/Kg	17.4	87.0	70.1 - 134		5/23/2022
Chloromethane	20.0	ug/Kg	19.1	95.4	42.4 - 168		5/23/2022
cis-1,3-Dichloropropene	20.0	ug/Kg	16.3	81.4	66.7 - 122		5/23/2022
Dibromochloromethane	20.0	ug/Kg	15.2	75.9	61.2 - 130		5/23/2022
Ethylbenzene	20.0	ug/Kg	20.1	101	71.6 - 112		5/23/2022
Methylene chloride	20.0	ug/Kg	17.2	85.9	38.2 - 155		5/23/2022
Tetrachloroethene	20.0	ug/Kg	18.3	91.5	61.4 - 137		5/23/2022
Toluene	20.0	ug/Kg	19.0	95.1	71.1 - 124		5/23/2022
trans-1,2-Dichloroethene	20.0	ug/Kg	18.7	93.6	67.3 - 127		5/23/2022
trans-1,3-Dichloropropene	20.0	ug/Kg	15.3	76.7	55 - 126		5/23/2022
Trichloroethene	20.0	ug/Kg	19.0	95.1	69.3 - 128		5/23/2022
Trichlorofluoromethane	20.0	ug/Kg	19.8	99.0	64 - 140		5/23/2022
Vinyl chloride	20.0	ug/Kg	20.5	102	51.2 - 160		5/23/2022

Report Prepared Monday, May 23, 2022

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: ST08 Excavation & Concrete

Lab Project ID: 222262

Matrix: Soil

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z09387.D

QC Number: LCS 1

QC Batch ID: voas220523

Report Prepared *Monday, May 23, 2022*

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: ST08 Excavation & Concrete

Lab Project ID: 222262

Matrix: TCLP Fluid

TCLP Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	<0.00200	mg/L		5/23/2022 13:45

Method Reference(s): EPA 7470A
Preparation Date: 5/23/2022
Data File: Hg220523A
QC Batch ID: QC220523HgTCLP
QC Number: Blk 1

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, May 23, 2022

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Inventum Engineering, P.C.

Project Reference: ST08 Excavation & Concrete

Lab Project ID: 222262

Matrix: TCLP Fluid

TCLP Mercury

Analyte	LCS Added	LCSD Added	Spike Units	LCS Result	LCSD Result	LCS % Recovery	LCSD % Recovery	% Rec Limits	LCS Outliers	LCSD Outliers	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Mercury	0.0200	0.0200	mg/L	0.0206	0.0210	103	105	80 - 120			2.17	20		5/23/2022

Method Reference(s): EPA 7470A
Preparation Date: 5/23/2022
Data File: Hg220523A
QC Number: 1
QC Batch ID: QC220523HgTCLP

Report Prepared Monday, May 23, 2022

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: ST08 Excavation & Concrete

Lab Project ID: 222262

Matrix: TCLP Fluid

TCLP Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Dichloroethene	<20.0	ug/L		5/23/2022 11:13
1,2-Dichloroethane	<20.0	ug/L		5/23/2022 11:13
2-Butanone	<100	ug/L		5/23/2022 11:13
Benzene	<20.0	ug/L		5/23/2022 11:13
Carbon Tetrachloride	<20.0	ug/L		5/23/2022 11:13
Chlorobenzene	<20.0	ug/L		5/23/2022 11:13
Chloroform	<20.0	ug/L		5/23/2022 11:13
Tetrachloroethene	<20.0	ug/L		5/23/2022 11:13
Trichloroethene	<20.0	ug/L		5/23/2022 11:13
Vinyl chloride	<20.0	ug/L		5/23/2022 11:13

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**92.0**	81.1 - 136		5/23/2022 11:13
4-Bromofluorobenzene	**91.1**	75.8 - 132		5/23/2022 11:13
Pentafluorobenzene	**103**	82 - 132		5/23/2022 11:13
Toluene-D8	**101**	64.6 - 137		5/23/2022 11:13

Method Reference(s): EPA 8260C
EPA 5030

Data File: z09386.D

QC Batch ID: voax220523

QC Number: Blk 1

Report Prepared Monday, May 23, 2022

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.
Project Reference: ST08 Excavation & Concrete
Lab Project ID: 222262
Matrix: TCLP Fluid

TCLP Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,1-Dichloroethene	20.0	ug/L	18.4	91.9	65.5 - 116		5/23/2022
1,2-Dichloroethane	20.0	ug/L	17.0	84.9	78.3 - 122		5/23/2022
Benzene	20.0	ug/L	18.4	92.1	81.6 - 114		5/23/2022
Carbon Tetrachloride	20.0	ug/L	18.3	91.7	76.4 - 129		5/23/2022
Chlorobenzene	20.0	ug/L	20.2	101	77.2 - 106		5/23/2022
Chloroform	20.0	ug/L	17.8	89.0	84.5 - 122		5/23/2022
Tetrachloroethene	20.0	ug/L	18.3	91.7	64.4 - 130		5/23/2022
Trichloroethene	20.0	ug/L	18.9	94.4	73.4 - 122		5/23/2022
Vinyl chloride	20.0	ug/L	19.8	99.0	50.9 - 164		5/23/2022

Method Reference(s): EPA 8260C
EPA 5030
Data File: z09385.D
QC Number: LCS 1
QC Batch ID: voax220523

Report Prepared Monday, May 23, 2022

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified “reported as received”. Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an “A” suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

“<” = Analyzed for but not detected at or above the quantitation limit.
“E” = Result has been estimated, calibration limit exceeded.
“H” = Denotes a parameter analyzed outside of holding time.
“Z” = See case narrative.
“D” = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
“M” = Matrix spike recoveries outside QC limits. Matrix bias indicated.
“B” = Method blank contained trace levels of analyte. Refer to included method blank report.
“J” = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
“P” = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:	
CLIENT: INVENTUM ENGINEERING	CLIENT: SAME	LAB PROJECT ID: 222262
ADDRESS: 4411 CARLISLE DR SUITE C	ADDRESS:	
CITY: HERNDON STATE: VA ZIP: 20170	CITY: STATE: ZIP:	Quotation #:
PHONE: 585-784-5255	PHONE:	Email:
ATTN: ROXANNE BIRX	ATTN: JOHN BLACK	

PROJECT REFERENCE: STO8 EXCAVATION & CONCRETE

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

TAL pittsburgh, GPS 5/17/22

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	8260/8270 TCL VOC/SVOC	FULL TCLP *	TOTAL PCBs 8082	METALS 6010C	Hg-7471	AMMONIA 350.1	Cr 9012 B	% SOLIDS	IGNITEABILITY	CORROSIVITY	PAINT FILTER	TOTAL PEST HERB	REMARKS	PARADIGM LAB SAMPLE NUMBER
5/13/2022	9:30	X		STO8-SOIL-05132022	SO	4	X	X	X	X	X	X	X	X	X	X	X	X	FULL TCLP: 8260, 8270,	01A
5/13/2022	9:30	X		STO8-CONCRETE-05132022	SD	1		X	X							XX			Metals 6010C, PEST+HERB A for TCLP extract. GPS 5/17/22	02A
																			~~Please Run PH on Both Samples as well.~~	
																			~~Please Run Pest + HERB on STO8 Concrete 05132022~~ SEE NOTE ABOVE. STO8 CONCRETE RUN TOTAL PEST/HERB NOT TCLP STO8 SOIL - JUST TCLP PEST HERB	

5°C i cal 5/16/22 1554

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	None Required		None Required	
10 day		Batch QC	X	Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	X
Rush 2 day		Category B			
Rush 1 day					
Date Needed _____ please indicate date needed:		Other please indicate package needed:		Other EDD please indicate EDD needed:	

ROXANNE BIRX — Sampled By	5/13/2022 9:30 — Date/Time	Total Cost:
[signature] — Relinquished By	5/13/2022 — Date/Time	
[signature] — Received By	5/13/22 14:50 — Date/Time	P.I.F.
[signature] — Received @ Lab By	5/17/22 09:56 — Date/Time	

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

Chain of Custody Supplement

Client: Inventum Engineering **Completed by:** Glenn Pezzulo

Lab Project ID: 222262 **Date:** 5/17/22

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X	X 5035 (01)	
Comments			
Transferred to method-compliant container	X 02		X
Headspace (<1 mL)		X TCLP VOA	X
Comments	Sample 02 collected in plastic bag, transferred to glass jars in lab.		
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			Y
Comments			
Holding Time	X		
Comments			
Temperature	X		X Metals
Comments	5°C iced		
Compliant Sample Quantity/Type	X		
Comments			

Adirondack Environmental Services, Inc.

Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

May 24, 2022

Emily Farmen
Paradigm Environmental
179 Lake Avenue
Rochester, NY 14608

TEL: (800) 724-1997

Work Order No: 220518016

RE: Analysis of Samples
Project# 222262

Dear Emily Farmen:

Adirondack Environmental Services, Inc received 2 samples on 5/18/2022 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709

Tara Daniels
Laboratory Director

Adirondack Environmental Services, Inc — CASE NARRATIVE

Paradigm Environmental

Analysis of Samples

Project# 222262

Date: *24-May-22*

Lab WorkOrder: **220518016**

Sample containers were not supplied by Adirondack Environmental Services.

Definitions - RL: Reporting Limit DF: Dilution factor

Qualifiers:

- ND : Not Detected at reporting limit
- J: Analyte detected below quantitation limit
- B: Analyte detected in Blank
- X : Exceeds maximum contamination limit
- H: Hold time exceeded
- N: Matrix Spike below acceptable limits
- N+: Matrix Spike is above acceptable limits
- C: CCV below acceptable Limits
- C+: CCV above acceptable Limits
- S: LCS Spike recovery is below acceptable limits
- S+: LCS Spike recovery is above acceptable limits
- Z: Duplication outside acceptable limits
- T : Tentatively Identified Compound-Estimated
- E :Above quantitation range-Estimated

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

Adirondack Environmental Services, Inc

Date: *24-May-22*

CLIENT: Paradigm Environmental
Project: Analysis of Samples
Project# 222262

LabWork Order: **220518016**
PO#:

Lab SampleID: 220518016-001
Client Sample ID: 222262-01

Collection Date: 5/13/2022
Matrix: SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS-EPA 6010C (**Prep: SW3050B - 5/19/2022**)						Analyst: **SM**
Aluminum	**2080**	5.00		µg/g	1	5/19/2022 3:32:22 PM
Antimony	**4.41**	3.00		µg/g	1	5/19/2022 3:32:22 PM
Arsenic	**22.7**	0.250		µg/g	1	5/19/2022 3:32:22 PM
Barium	**35.8**	0.500		µg/g	1	5/19/2022 3:32:22 PM
Beryllium	**ND**	0.250		µg/g	1	5/19/2022 3:32:22 PM
Cadmium	**14.5**	0.250		µg/g	1	5/19/2022 3:32:22 PM
Calcium	**26000**	250		µg/g	10	5/19/2022 3:37:26 PM
Chromium	**106**	0.250		µg/g	1	5/19/2022 3:32:22 PM
Cobalt	**5.56**	2.50		µg/g	1	5/19/2022 3:32:22 PM
Copper	**87.0**	0.250		µg/g	1	5/19/2022 3:32:22 PM
Iron	**87200**	250		µg/g	100	5/19/2022 3:42:41 PM
Lead	**37.4**	0.250		µg/g	1	5/19/2022 3:32:22 PM
Magnesium	**5960**	250		µg/g	10	5/19/2022 3:37:26 PM
Manganese	**444**	0.500		µg/g	1	5/19/2022 3:32:22 PM
Nickel	**33.4**	2.50		µg/g	1	5/19/2022 3:32:22 PM
Potassium	**1020**	25.0		µg/g	1	5/19/2022 3:32:22 PM
Selenium	**ND**	0.250		µg/g	1	5/19/2022 3:32:22 PM
Silver	**ND**	1.00		µg/g	1	5/19/2022 3:32:22 PM
Sodium	**4890**	250		µg/g	10	5/19/2022 3:37:26 PM
Thallium	**ND**	0.500		µg/g	1	5/19/2022 3:32:22 PM
Vanadium	**ND**	2.50		µg/g	1	5/19/2022 3:32:22 PM
Zinc	**78.4**	0.500		µg/g	1	5/19/2022 3:32:22 PM
AMMONIA AS N - SM 4500 NH3 G-2011 (**Prep: SM4500-NH3 G - 5/23/2022**)						Analyst: **CS**
Nitrogen, Ammonia- (as N)	**2000**	100		µg/g	50	5/24/2022 12:08:31 PM
CYANIDE, TOTAL - SW 9012B (**Prep: 9010C - 5/19/2022**)						Analyst: **KB**
Cyanide	**1.11**	0.50		µg/g	1	5/19/2022 1:53:41 PM

Adirondack Environmental Services, Inc

Date: *24-May-22*

CLIENT: Paradigm Environmental
Project: Analysis of Samples
Project# 222262

LabWork Order: **220518016**
PO#:

Lab SampleID: 220518016-002
Client Sample ID: 222262-02

Collection Date: 5/13/2022
Matrix: SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES - EPA 8081B (**Prep: SW3545A - 5/19/2022**)						Analyst: **KF**
4,4´-DDD	**ND**	3.3		µg/Kg	1	5/23/2022 11:56:00 AM
4,4´-DDE	**ND**	3.3		µg/Kg	1	5/23/2022 11:56:00 AM
4,4´-DDT	**ND**	3.3		µg/Kg	1	5/23/2022 11:56:00 AM
Aldrin	**ND**	1.7		µg/Kg	1	5/23/2022 11:56:00 AM
alpha-BHC	**ND**	1.7		µg/Kg	1	5/23/2022 11:56:00 AM
alpha-Chlordane	**ND**	1.7		µg/Kg	1	5/23/2022 11:56:00 AM
beta-BHC	**ND**	1.7		µg/Kg	1	5/23/2022 11:56:00 AM
Chlordane	**ND**	170		µg/Kg	1	5/23/2022 11:56:00 AM
delta-BHC	**ND**	1.7		µg/Kg	1	5/23/2022 11:56:00 AM
Dieldrin	**ND**	3.3		µg/Kg	1	5/23/2022 11:56:00 AM
Endosulfan I	**ND**	1.7		µg/Kg	1	5/23/2022 11:56:00 AM
Endosulfan II	**ND**	3.3		µg/Kg	1	5/23/2022 11:56:00 AM
Endosulfan sulfate	**ND**	3.3		µg/Kg	1	5/23/2022 11:56:00 AM
Endrin	**ND**	3.3		µg/Kg	1	5/23/2022 11:56:00 AM
Endrin aldehyde	**ND**	3.3		µg/Kg	1	5/23/2022 11:56:00 AM
Endrin ketone	**ND**	3.3		µg/Kg	1	5/23/2022 11:56:00 AM
gamma-BHC	**ND**	1.7		µg/Kg	1	5/23/2022 11:56:00 AM
gamma-Chlordane	**ND**	1.7		µg/Kg	1	5/23/2022 11:56:00 AM
Heptachlor	**ND**	1.7		µg/Kg	1	5/23/2022 11:56:00 AM
Heptachlor epoxide	**ND**	2.0		µg/Kg	1	5/23/2022 11:56:00 AM
Methoxychlor	**ND**	17		µg/Kg	1	5/23/2022 11:56:00 AM
Toxaphene	**ND**	170		µg/Kg	1	5/23/2022 11:56:00 AM
Surr: Decachlorobiphenyl	**48.4**	48.1-135		%REC	1	5/23/2022 11:56:00 AM
Surr: Tetrachloro-m-xylene	**88.8**	44.6-139		%REC	1	5/23/2022 11:56:00 AM
CHLORINATED HERBICIDES - EPA 8321B (**Prep: SW3545A - 5/20/2022**)						Analyst: **KF**
2,4,5-T	**ND**	300		µg/Kg	1	5/20/2022 4:20:38 PM
2,4,5-TP (Silvex)	**ND**	300		µg/Kg	1	5/20/2022 4:20:38 PM
2,4-D	**ND**	1200		µg/Kg	1	5/20/2022 4:20:38 PM
Surr: 4-Chlorophenoxyacetic Acid	**102**	60-140		%REC	1	5/20/2022 4:20:38 PM
Surr: Acifluorfen	**126**	51.2-145		%REC	1	5/20/2022 4:20:38 PM

Adirondack Environmental Services, Inc

Date: *24-May-22*

CLIENT: Paradigm Environmental
Work Order: 220518016
Project: Analysis of Samples

ANALYTICAL QC SUMMARY REPORT

BatchID: 93495

MBLK

SeqNo: **3316070** PrepDate: TestNo: **SW6010C** RunNo: **207427**
Samp ID: **MBLK** PrepRef:(SW3050B) Units: **µg/g** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	5.00									
Antimony	ND	3.00									
Arsenic	ND	0.250									
Barium	ND	0.500									
Beryllium	ND	0.250									
Cadmium	ND	0.250									
Calcium	ND	25.0									
Chromium	ND	0.250									
Cobalt	ND	2.50									
Copper	ND	0.250									
Iron	ND	2.50									
Lead	ND	0.250									
Magnesium	ND	25.0									
Manganese	ND	0.500									
Nickel	ND	2.50									
Potassium	ND	25.0									
Selenium	ND	0.500									
Silver	ND	1.00									
Sodium	ND	25.0									
Thallium	ND	0.500									
Vanadium	ND	2.50									
Zinc	ND	0.500									

LCS

SeqNo: **3316071** PrepDate: TestNo: **SW6010C** RunNo: **207427**
Samp ID: **LCS** PrepRef:(SW3050B) Units: **µg/g** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	7603	10.0	8110	0	93.7	48.088779	151.66461	0	0		
Antimony	77.97	6.00	134	0	58.2	4.4776119	200.74627	0	0		
Arsenic	155.8	0.500	170	0	91.6	82.941176	117.64706	0	0		
Barium	151.3	1.00	183	0	82.7	82.513661	117.48634	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Paradigm Environmental
Work Order: 220518016
Project: Analysis of Samples

ANALYTICAL QC SUMMARY REPORT

BatchID: 93495

LCS

SeqNo: **3316071** PrepDate: TestNo: **SW6010C** RunNo: **207427**
Samp ID: **LCS** PrepRef:(SW3050B) Units: **µg/g** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	102.6	0.500	116	0	88.4	83.362069	116.37931	0	0		
Cadmium	81.59	0.500	89.5	0	91.2	82.793296	117.31844	0	0		
Calcium	4257	50.0	4810	0	88.5	75.467775	118.08732	0	0		
Chromium	90.99	0.500	101	0	90.1	82.079208	117.82178	0	0		
Cobalt	74.1	5.00	84.8	0	87.4	83.490566	116.50943	0	0		
Copper	129.8	0.500	149	0	87.1	83.892617	116.10738	0	0		
Iron	14170	5.00	14100	0	100	60	139.71631	0	0		
Lead	118.8	0.500	140	0	84.9	82.857143	117.14286	0	0		
Magnesium	2096	50.0	2350	0	89.2	76.170213	123.82979	0	0		
Manganese	530.3	1.00	648	0	81.8	81.790123	118.20988	0	0		
Nickel	60.85	5.00	68.3	0	89.1	82.137628	117.71596	0	0		
Potassium	2046	50.0	2050	0	99.8	69.756098	129.7561	0	0		
Selenium	155.4	1.00	182	0	85.4	79.67033	120.32967	0	0		
Silver	43.96	2.00	50.1	0	87.7	80.239521	119.96008	0	0		
Sodium	140	50.0	136	0	103	71.617647	127.94118	0	0		
Thallium	72.13	1.00	87.7	0	82.2	81.071836	118.58609	0	0		
Vanadium	139.1	5.00	153	0	90.9	79.084967	120.91503	0	0		
Zinc	218.7	1.00	228	0	95.9	80.701754	118.85965	0	0		

MS

SeqNo: **3316394** PrepDate:**5/19/2022** TestNo: **SW6010C** RunNo: **207427**
Samp ID: **220518050-001A** PrepRef:(SW3050B) Units: **µg/g** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	151	5.00	100	44.49	107	75	125	0	0		
Antimony	12.18	3.00	25	0	48.7	75	125	0	0		S
Arsenic	1.165	0.250	2	0	58.3	75	125	0	0		S
Barium	96.89	0.500	100	0.04696	96.8	75	122	0	0		
Beryllium	2.891	0.250	2.5	0.03082	114	75	122	0	0		
Cadmium	2.315	0.250	2.5	0.0165	91.9	75	125	0	0		
Chromium	11.13	0.250	10	1.023	101	75	125	0	0		
Cobalt	23.09	2.50	25	0	92.4	75	122	0	0		
Copper	13.98	0.250	12.5	1.655	98.6	75	125	0	0		
Iron	69.53	2.50	50	16.95	105	75	125	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Paradigm Environmental
Work Order: 220518016
Project: Analysis of Samples

ANALYTICAL QC SUMMARY REPORT

BatchID: 93495

MS

SeqNo: **3316394** PrepDate:**5/19/2022** TestNo: **SW6010C** RunNo: **207427**
Samp ID: **220518050-001A** PrepRef:**(SW3050B)** Units: **µg/g** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.8904	0.250	1	0	89	75	125	0	0		
Manganese	24.56	0.500	25	0.2193	97.4	75	125	0	0		
Nickel	24.44	2.50	25	0	97.7	75	125	0	0		
Selenium	1.35	0.500	0.5	1.059	58.2	75	125	0	0		S
Silver	2.258	1.00	2.5	0	90.3	75	125	0	0		
Thallium	1.536	0.500	2.5	0	61.5	75	125	0	0		S
Vanadium	25.27	2.50	25	0	101	75	125	0	0		
Zinc	22.17	0.500	25	1.227	83.8	75	125	0	0		

DUP

SeqNo: **3316392** PrepDate:**5/19/2022** TestNo: **SW6010C** RunNo: **207427**
Samp ID: **220518050-001A** PrepRef:**(SW3050B)** Units: **µg/g** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	43.45	5.00	0	0	0	0	0	44.49	2.35	20	
Antimony	ND	3.00	0	0	0	0	0	0	0	19.9	
Arsenic	ND	0.250	0	0	0	0	0	0	0	20	
Barium	ND	0.500	0	0	0	0	0	0.04696	0	20	
Beryllium	ND	0.250	0	0	0	0	0	0.03082	0	20	
Cadmium	ND	0.250	0	0	0	0	0	0.0165	0	20	
Calcium	64.01	25.0	0	0	0	0	0	56.2	13.0	20	
Chromium	0.9663	0.250	0	0	0	0	0	1.023	5.66	20	
Cobalt	ND	2.50	0	0	0	0	0	0	0	20	
Copper	1.627	0.250	0	0	0	0	0	1.655	1.71	20	
Iron	18.78	2.50	0	0	0	0	0	16.95	10.2	17.3	
Lead	ND	0.250	0	0	0	0	0	0	0	20	
Magnesium	ND	25.0	0	0	0	0	0	7.636	0	20	
Manganese	ND	0.500	0	0	0	0	0	0.2193	0	20	
Nickel	ND	2.50	0	0	0	0	0	0	0	19.4	
Potassium	ND	25.0	0	0	0	0	0	3.787	0	18.3	
Selenium	0.5164	0.500	0	0	0	0	0	1.059	68.9	20	Z
Silver	ND	1.00	0	0	0	0	0	0	0	17.5	
Sodium	130.3	25.0	0	0	0	0	0	128.9	1.10	20	B
Thallium	ND	0.500	0	0	0	0	0	0	0	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Paradigm Environmental
Work Order: 220518016
Project: Analysis of Samples

ANALYTICAL QC SUMMARY REPORT

BatchID: 93495

DUP

SeqNo: **3316392** PrepDate:**5/19/2022** TestNo: **SW6010C** RunNo: **207427**
Samp ID: **220518050-001A** PrepRef:**(SW3050B)** Units: **µg/g** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vanadium	ND	2.50	0	0	0	0	0	0	0	20	
Zinc	0.8945	0.500	0	0	0	0	0	1.227	31.4	20	Z

MBLK

SeqNo: **3316239** PrepDate: TestNo: **SW6010C** RunNo: **207427**
Samp ID: **MBLK** PrepRef:**(SW3050B)** Units: **µg/g** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	5.00									
Antimony	ND	3.00									
Arsenic	ND	0.250									
Barium	ND	0.500									
Beryllium	ND	0.250									
Cadmium	ND	0.250									
Calcium	ND	25.0									
Chromium	ND	0.250									
Cobalt	ND	2.50									
Copper	ND	0.250									
Iron	ND	2.50									
Lead	ND	0.250									
Magnesium	ND	25.0									
Manganese	ND	0.500									
Nickel	ND	2.50									
Potassium	ND	25.0									
Selenium	ND	0.500									
Silver	ND	1.00									
Sodium	28.06	25.0									
Thallium	ND	0.500									
Vanadium	ND	2.50									
Zinc	ND	0.500									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Paradigm Environmental
Work Order: 220518016
Project: Analysis of Samples

ANALYTICAL QC SUMMARY REPORT

BatchID: 93495

LCS

SeqNo: **3316240** PrepDate: TestNo: **SW6010C** RunNo: **207427**
Samp ID: **LCS** PrepRef:(SW3050B) Units: **µg/g** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	6311	10.0	8110	0	77.8	48.088779	151.66461	0	0		
Antimony	58.8	6.00	134	0	43.9	4.4776119	200.74627	0	0		
Arsenic	169.1	0.500	170	0	99.5	82.941176	117.64706	0	0		
Barium	178.6	1.00	183	0	97.6	82.513661	117.48634	0	0		
Beryllium	99.54	0.500	116	0	85.8	83.362069	116.37931	0	0		
Cadmium	91.9	0.500	89.5	0	103	82.793296	117.31844	0	0		
Calcium	4616	50.0	4810	0	96	75.467775	118.08732	0	0		
Chromium	99.86	0.500	101	0	98.9	82.079208	117.82178	0	0		
Cobalt	79.07	5.00	84.8	0	93.2	83.490566	116.50943	0	0		
Copper	137.7	0.500	149	0	92.4	83.892617	116.10738	0	0		
Iron	11230	5.00	14100	0	79.6	60	139.71631	0	0		
Lead	135	0.500	140	0	96.4	82.857143	117.14286	0	0		
Magnesium	1994	50.0	2350	0	84.9	76.170213	123.82979	0	0		
Manganese	640	1.00	648	0	98.8	81.790123	118.20988	0	0		
Nickel	68.09	5.00	68.3	0	99.7	82.137628	117.71596	0	0		
Potassium	1674	50.0	2050	0	81.6	69.756098	129.7561	0	0		
Selenium	178.2	1.00	182	0	97.9	79.67033	120.32967	0	0		
Silver	44.49	2.00	50.1	0	88.8	80.239521	119.96008	0	0		
Sodium	144.2	50.0	136	0	106	71.617647	127.94118	0	0		
Thallium	91.94	1.00	87.7	0	105	81.071836	118.58609	0	0		
Vanadium	148.8	5.00	153	0	97.3	79.084967	120.91503	0	0		
Zinc	224.2	1.00	228	0	98.3	80.701754	118.85965	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Paradigm Environmental
Work Order: 220518016
Project: Analysis of Samples

ANALYTICAL QC SUMMARY REPORT

BatchID: 93502

mblk

SeqNo: **3316171** PrepDate:**5/19/2022** TestNo: **SW9012B** RunNo: **207439**
Samp ID: **MB-93502** PrepRef:**(9010C)** Units: **µg/g** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	ND	0.500									

lcs

SeqNo: **3316172** PrepDate:**5/19/2022** TestNo: **SW9012B** RunNo: **207439**
Samp ID: **LCS-93502** PrepRef:**(9010C)** Units: **µg/g** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	102.4	5.00	91.9	0	111	27.2	173	0	0		

dup

SeqNo: **3316197** PrepDate:**5/19/2022** TestNo: **SW9012B** RunNo: **207439**
Samp ID: **220518019-001A** PrepRef:**(9010C)** Units: **µg/g** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	71.19	12.0	0	0	0	0	0	82.7	15.0	19.9	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Paradigm Environmental
Work Order: 220518016
Project: Analysis of Samples

ANALYTICAL QC SUMMARY REPORT

BatchID: 93506

mblk

SeqNo: **3317828** PrepDate:**5/19/2022** TestNo: **SW8081B** RunNo: **207536**
Samp ID: **mb-93506** PrepRef:**(SW3545A)** Units: **µg/Kg** Analysis Date: **5/23/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	ND	3.3									
4,4´-DDE	ND	3.3									
4,4´-DDT	ND	3.3									
Aldrin	ND	1.7									
alpha-BHC	ND	1.7									
alpha-Chlordane	ND	1.7									
beta-BHC	ND	1.7									
delta-BHC	ND	1.7									
Dieldrin	ND	3.3									
Endosulfan I	ND	1.7									
Endosulfan II	ND	3.3									
Endosulfan sulfate	ND	3.3									
Endrin	ND	3.3									
Endrin aldehyde	ND	3.3									
Endrin ketone	ND	3.3									
gamma-BHC	ND	1.7									
gamma-Chlordane	ND	1.7									
Heptachlor	ND	1.7									
Heptachlor epoxide	ND	2.0									
Methoxychlor	ND	17									
Toxaphene	ND	170									
Chlordane	ND	170									
Surr: Decachlorobiphenyl	32.1	0	50	0	64.2	48.1	135	0	0		
Surr: Tetrachloro-m-xylene	33.7	0	50	0	67.4	44.6	139	0	0		

lcs

SeqNo: **3317829** PrepDate:**5/19/2022** TestNo: **SW8081B** RunNo: **207536**
Samp ID: **lcs-93506** PrepRef:**(SW3545A)** Units: **µg/Kg** Analysis Date: **5/23/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	33.1	3.3	50	0	66.2	47.8	133	0	0		
4,4´-DDE	29.6	3.3	50	0	59.2	48.6	124	0	0		
4,4´-DDT	31	3.3	50	0	62	47.5	132	0	0		
Aldrin	26.6	1.7	50	0	53.2	51.6	121	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Paradigm Environmental
Work Order: 220518016
Project: Analysis of Samples

ANALYTICAL QC SUMMARY REPORT

BatchID: 93506

lcs

SeqNo: **3317829** PrepDate:5/19/2022 TestNo: **SW8081B** RunNo: **207536**
Samp ID: **lcs-93506** PrepRef:(SW3545A) Units: **µg/Kg** Analysis Date: **5/23/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	28.8	1.7	50	0	57.6	46.3	127	0	0		
alpha-Chlordane	25.4	1.7	50	0	50.8	48.1	129	0	0		
beta-BHC	27.1	1.7	50	0	54.2	53.5	126	0	0		
delta-BHC	23.4	1.7	50	0	46.8	37.1	121	0	0		
Dieldrin	27	3.3	50	0	54	49.2	123	0	0		
Endosulfan I	23.2	1.7	50	0	46.4	49.2	131	0	0		S
Endosulfan II	26	3.3	50	0	52	49.5	129	0	0		
Endosulfan sulfate	29.4	3.3	50	0	58.8	46.1	128	0	0		
Endrin	31.6	3.3	50	0	63.2	51.6	135	0	0		
Endrin aldehyde	23.8	3.3	50	0	47.6	45.2	126	0	0		
Endrin ketone	26.3	3.3	50	0	52.6	45	132	0	0		
gamma-BHC	26.8	1.7	50	0	53.6	52.4	131	0	0		
gamma-Chlordane	25.5	1.7	50	0	51	50	133	0	0		
Heptachlor	29	1.7	50	0	58	50	128	0	0		
Heptachlor epoxide	26.2	2.0	50	0	52.4	52.9	132	0	0		S
Methoxychlor	31.5	17	50	0	63	46	133	0	0		
Surr: Decachlorobiphenyl	38.1	0	50	0	76.2	48.1	135	0	0		
Surr: Tetrachloro-m-xylene	39	0	50	0	78	44.6	139	0	0		

ms

SeqNo: **3317831** PrepDate:5/19/2022 TestNo: **SW8081B** RunNo: **207536**
Samp ID: **220518027-001a** PrepRef:(SW3545A) Units: **µg/Kg** Analysis Date: **5/23/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	32	3.3	50	0	64	42.1	127	0	0		
4,4´-DDE	29.8	3.3	50	0	59.6	44.8	136	0	0		
4,4´-DDT	32.4	3.3	50	0	64.8	44.1	131	0	0		
Aldrin	26	1.7	50	0	52	43.8	126	0	0		
alpha-BHC	28.2	1.7	50	0	56.4	32.7	127	0	0		
alpha-Chlordane	25.3	1.7	50	0	50.6	39.6	120	0	0		
beta-BHC	26.9	1.7	50	0	53.8	40.2	135	0	0		
delta-BHC	23.4	1.7	50	0	46.8	27.6	115	0	0		
Dieldrin	26.8	3.3	50	0	53.6	48.4	132	0	0		
Endosulfan I	23.2	1.7	50	0	46.4	42.2	125	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Paradigm Environmental
Work Order: 220518016
Project: Analysis of Samples

ANALYTICAL QC SUMMARY REPORT

BatchID: 93506

ms

SeqNo: **3317831** PrepDate:5/19/2022 TestNo: **SW8081B** RunNo: **207536**
Samp ID: **220518027-001a** PrepRef:(SW3545A) Units: **µg/Kg** Analysis Date: **5/23/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Endosulfan II	26.5	3.3	50	0	53	39.1	133	0	0		
Endosulfan sulfate	25.1	3.3	50	0	50.2	36.2	135	0	0		
Endrin	31.8	3.3	50	0	63.6	50.6	131	0	0		
Endrin aldehyde	24.2	3.3	50	0	48.4	30.2	124	0	0		
Endrin ketone	26.4	3.3	50	0	52.8	34.2	130	0	0		
gamma-BHC	26.4	1.7	50	0	52.8	33.5	129	0	0		
gamma-Chlordane	25.2	1.7	50	0	50.4	47.2	125	0	0		
Heptachlor	28.7	1.7	50	0	57.4	49.3	124	0	0		
Heptachlor epoxide	25.7	2.0	50	0	51.4	39.7	118	0	0		
Methoxychlor	32.4	17	50	0	64.8	39.1	135	0	0		
Surr: Decachlorobiphenyl	33.1	0	50	0	66.2	48.1	135	0	0		
Surr: Tetrachloro-m-xylene	38.4	0	50	0	76.8	44.6	139	0	0		

msd

SeqNo: **3317832** PrepDate:5/19/2022 TestNo: **SW8081B** RunNo: **207536**
Samp ID: **220518027-001a** PrepRef:(SW3545A) Units: **µg/Kg** Analysis Date: **5/23/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	37.5	3.3	50	0	75	42.1	127	32	15.8	36	
4,4´-DDE	27.8	3.3	50	0	55.6	44.8	136	29.8	6.94	31.5	
4,4´-DDT	31.4	3.3	50	0	62.8	44.1	131	32.4	3.13	31.6	
Aldrin	27.5	1.7	50	0	55	43.8	126	26	5.61	32.6	
alpha-BHC	25.4	1.7	50	0	50.8	32.7	127	28.2	10.4	29	
alpha-Chlordane	23.2	1.7	50	0	46.4	39.6	120	25.3	8.66	30.7	
beta-BHC	24.2	1.7	50	0	48.4	40.2	135	26.9	10.6	29.5	
delta-BHC	21.5	1.7	50	0	43	27.6	115	23.4	8.46	34	
Dieldrin	24.2	3.3	50	0	48.4	48.4	132	26.8	10.2	31.1	
Endosulfan I	21	1.7	50	0	42	42.2	125	23.2	9.95	30.9	S
Endosulfan II	23.6	3.3	50	0	47.2	39.1	133	26.5	11.6	32.4	
Endosulfan sulfate	22.2	3.3	50	0	44.4	36.2	135	25.1	12.3	33.2	
Endrin	28.8	3.3	50	0	57.6	50.6	131	31.8	9.90	30.6	
Endrin aldehyde	22	3.3	50	0	44	30.2	124	24.2	9.52	30	
Endrin ketone	24.9	3.3	50	0	49.8	34.2	130	26.4	5.85	29.2	
gamma-BHC	24.5	1.7	50	0	49	33.5	129	26.4	7.47	29.5	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Paradigm Environmental
Work Order: 220518016
Project: Analysis of Samples

ANALYTICAL QC SUMMARY REPORT

BatchID: 93506

msd

SeqNo: **3317832** PrepDate:**5/19/2022** TestNo: **SW8081B** RunNo: **207536**
Samp ID: **220518027-001a** PrepRef:**(SW3545A)** Units: **µg/Kg** Analysis Date: **5/23/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
gamma-Chlordane	22.9	1.7	50	0	45.8	47.2	125	25.2	9.56	32.6	S
Heptachlor	26.5	1.7	50	0	53	49.3	124	28.7	7.97	30	
Heptachlor epoxide	23	2.0	50	0	46	39.7	118	25.7	11.1	34.7	
Methoxychlor	30.2	17	50	0	60.4	39.1	135	32.4	7.03	27.8	
Surr: Decachlorobiphenyl	28	0	50	0	56	48.1	135	0	0	30	
Surr: Tetrachloro-m-xylene	32.8	0	50	0	65.6	44.6	139	0	0	30	

mblk

SeqNo: **3316343** PrepDate:**5/19/2022** TestNo: **SW8082A** RunNo: **207445**
Samp ID: **mb-93506** PrepRef:**(SW3545A)** Units: **µg/Kg** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	37	0	50	0	74	48.1	152	0	0		

lcs

SeqNo: **3316344** PrepDate:**5/19/2022** TestNo: **SW8082A** RunNo: **207445**
Samp ID: **lcs-93506** PrepRef:**(SW3545A)** Units: **µg/Kg** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	35	0	50	0	70	48.1	152	0	0		

ms

SeqNo: **3316421** PrepDate:**5/19/2022** TestNo: **SW8082A** RunNo: **207445**
Samp ID: **220518080-001a** PrepRef:**(SW3545A)** Units: **µg/Kg-dry** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	34.71	0	51.05	0	68	48.1	152	0	0		

msd

SeqNo: **3316422** PrepDate:**5/19/2022** TestNo: **SW8082A** RunNo: **207445**
Samp ID: **220518080-001a** PrepRef:**(SW3545A)** Units: **µg/Kg-dry** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	41.35	0	51.05	0	81	48.1	152	0	0	0	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Paradigm Environmental
Work Order: 220518016
Project: Analysis of Samples

ANALYTICAL QC SUMMARY REPORT

BatchID: 93539

mblk

SeqNo: **3317308** PrepDate:5/20/2022 TestNo: **SW8321B** RunNo: **207494**
Samp ID: **mb-93539** PrepRef:(SW3545A) Units: **µg/Kg** Analysis Date: **5/20/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-T	ND	300									
2,4,5-TP (Silvex)	ND	300									
2,4-D	ND	1200									
Surr: Acifluorfen	5814	5.00	5000	0	116	51.2	145	0	0		

lcs

SeqNo: **3317314** PrepDate:5/20/2022 TestNo: **SW8321B** RunNo: **207494**
Samp ID: **lcs-93539** PrepRef:(SW3545A) Units: **µg/Kg** Analysis Date: **5/20/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-T	953	300	1000	0	95.3	57.2	141	0	0		
2,4,5-TP (Silvex)	1007	300	1000	0	101	56.4	137	0	0		
2,4-D	ND	1200	1000	0	70.2	53.7	136	0	0		
Surr: Acifluorfen	7017	5.00	5000	0	140	51.2	145	0	0		

ms

SeqNo: **3317315** PrepDate:5/20/2022 TestNo: **SW8321B** RunNo: **207494**
Samp ID: **220519050-004a** PrepRef:(SW3545A) Units: **µg/Kg** Analysis Date: **5/20/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-T	840.2	300	1000	0	84	55.1	141	0	0		
2,4,5-TP (Silvex)	1111	300	1000	0	111	56.3	140	0	0		
2,4-D	ND	1200	1000	0	56.4	52.2	138	0	0		
Surr: Acifluorfen	6728	5.00	5000	0	135	51.2	145	0	0		

msd

SeqNo: **3317316** PrepDate:5/20/2022 TestNo: **SW8321B** RunNo: **207494**
Samp ID: **220519050-004A** PrepRef:(SW3545A) Units: **µg/Kg** Analysis Date: **5/20/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-T	884.8	300	1000	0	88.5	55.1	141	0	0		
2,4,5-TP (Silvex)	778.6	300	1000	0	77.9	56.3	140	0	0		
2,4-D	ND	1200	1000	0	48.3	52.2	138	0	0		S
Surr: Acifluorfen	6641	5.00	5000	0	133	51.2	145	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

ELAP ID:

REPORT TO:		INVOICE TO: NEC for metals	
COMPANY: Paradigm Environmental		COMPANY: Same	LAB PROJECT #: / CLIENT PROJEC
ADDRESS:		ADDRESS:	
CITY:	STATE: ZIP:	CITY:	STATE: ZIP: TURNAROUND TIME: (WORKING DAYS)
PHONE:	FAX:	PHONE:	FAX: STD 1 2 3 5
PROJECT NAME/SITE NAME:	ATTN: Reporting	ATTN: Accounts Payable	
	COMMENTS: Please email results to reporting@paradigmenv.com		Date Due: 5/24/22

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	Ammonia	Total Cyanide	TAL metals (no Hg)			Pesticides, Total	Herbicides, Total				REMARKS	PARADIGM LAB SAMPLE NUMBER
1	5/13/22	09:30	X		22262-01	Solid	1	X	X	X								Batch QC	
2	5/13/22	09:30	X		22262-02	Solid	1						X	X					
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Comments: Nal ACS		
Preservation:	Y ☐	N ☐
Comments:		
Holding Time:	Y ☐	N ☐
Comments:		
Temperature:	Y ☐	N ☐
Comments: 4°C		

Client

Sampled By: [signature]	Date/Time: 5/18/22	08:30
Relinquished By: Molly Reyn	Date/Time: 5/18/22	11:40
Received By:	Date/Time:	
Received @ Lab By: [signature]	Date/Time: 5/18/22	4:50 pm

Total Cost:

P.I.F.

Adirondack Environmental Services Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

(a) Neither **Adirondack Environmental Services, Inc.,** nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.

(b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.

(c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.

(d) In no event shall **Adirondack Environmental Services, Inc.,** its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.

(e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**

(f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.

(g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.

Adirondack Environmental Services, Inc.

Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

May 23, 2022

Emily Farmen
Paradigm Environmental
179 Lake Avenue
Rochester, NY 14608

TEL: (800) 724-1997

Work Order No: 220519042

RE: Analysis of Samples
Project# 222264 & 262

Dear Emily Farmen:

Adirondack Environmental Services, Inc received 3 samples on 5/19/2022 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709

Tara Daniels
Laboratory Director

Adirondack Environmental Services, Inc — CASE NARRATIVE

Paradigm Environmental

Analysis of Samples

Project# 222264 & 262

Date: *23-May-22*

Lab WorkOrder: **220519042**

Sample containers were not supplied by Adirondack Environmental Services.

Definitions - RL: Reporting Limit DF: Dilution factor

Qualifiers:

- ND : Not Detected at reporting limit
- J: Analyte detected below quantitation limit
- B: Analyte detected in Blank
- X : Exceeds maximum contamination limit
- H: Hold time exceeded
- N: Matrix Spike below acceptable limits
- N+: Matrix Spike is above acceptable limits
- C: CCV below acceptable Limits
- C+: CCV above acceptable Limits
- S: LCS Spike recovery is below acceptable limits
- S+: LCS Spike recovery is above acceptable limits
- Z: Duplication outside acceptable limits
- T : Tentatively Identified Compound-Estimated
- E :Above quantitation range-Estimated

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

Adirondack Environmental Services, Inc

Date: *23-May-22*

CLIENT:	Paradigm Environmental	**Client Sample ID:**	222262-01A
Work Order:	**220519042**	**Collection Date:**	5/13/2022
Reference:	Analysis of Samples / Project# 222264 & 262	**Lab Sample ID:**	220519042-002
PO#:		**Matrix:**	TCLP-EXTRACT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCLP HERBICIDES - EPA 8321B						Analyst: **KF**
(Prep: SW3535A - 5/19/2022)						
2,4,5-TP (Silvex)-TCLP	**ND**	0.050		mg/L	1	5/20/2022 11:51:01 AM
2,4-D-TCLP	**ND**	0.050		mg/L	1	5/20/2022 11:51:01 AM
Surr: Acifluorfen	**32.1**	52.5-128	S	%REC	1	5/20/2022 11:51:01 AM
Surr: DCAA	**65.4**	56.2-139		%REC	1	5/20/2022 11:51:01 AM
TCLP PESTICIDES - EPA 8081B						Analyst: **KF**
(Prep: SW3535A - 5/19/2022)						
Chlordane-TCLP	**ND**	0.010		mg/L	1	5/19/2022 7:34:22 PM
Endrin-TCLP	**ND**	0.0020		mg/L	1	5/19/2022 7:34:22 PM
gamma-BHC(Lindane)-TCLP	**ND**	0.0020		mg/L	1	5/19/2022 7:34:22 PM
Heptachlor epoxide-TCLP	**ND**	0.0020		mg/L	1	5/19/2022 7:34:22 PM
Heptachlor-TCLP	**ND**	0.0020		mg/L	1	5/19/2022 7:34:22 PM
Methoxychlor-TCLP	**ND**	0.010		mg/L	1	5/19/2022 7:34:22 PM
Toxaphene-TCLP	**ND**	0.020		mg/L	1	5/19/2022 7:34:22 PM
Surr: Decachlorobiphenyl-TCLP	**92.6**	51.5-141		%REC	1	5/19/2022 7:34:22 PM
TCLP METALS - SW1311/6010C						Analyst: **SM**
Arsenic-TCLP	**ND**	0.050		mg/L	1	5/20/2022 12:54:04 PM
Barium-TCLP	**ND**	0.100		mg/L	1	5/20/2022 12:54:04 PM
Cadmium-TCLP	**ND**	0.050		mg/L	1	5/20/2022 12:54:04 PM
Chromium-TCLP	**ND**	0.050		mg/L	1	5/20/2022 12:54:04 PM
Lead-TCLP	**ND**	0.050		mg/L	1	5/20/2022 12:54:04 PM
Selenium-TCLP	**ND**	0.050		mg/L	1	5/20/2022 12:54:04 PM
Silver-TCLP	**ND**	0.100		mg/L	1	5/20/2022 12:54:04 PM
TCLP SEMI-VOLATILES - EPA 8270D						Analyst: **MT**
(Prep: SW3535A - 5/23/2022)						
1,4-Dichlorobenzene -TCLP	**ND**	50		µg/L	1	5/23/2022 12:52:00 PM
2,4,5-Trichlorophenol-TCLP	**ND**	50		µg/L	1	5/23/2022 12:52:00 PM
2,4,6-Trichlorophenol-TCLP	**ND**	50		µg/L	1	5/23/2022 12:52:00 PM
2,4-Dinitrotoluene-TCLP	**ND**	50		µg/L	1	5/23/2022 12:52:00 PM
Cresols, Total-TCLP	**ND**	200		µg/L	1	5/23/2022 12:52:00 PM
Hexachlorobenzene-TCLP	**ND**	50		µg/L	1	5/23/2022 12:52:00 PM
Hexachlorobutadiene-TCLP	**ND**	50		µg/L	1	5/23/2022 12:52:00 PM
Hexachloroethane-TCLP	**ND**	50		µg/L	1	5/23/2022 12:52:00 PM
Nitrobenzene-TCLP	**ND**	50		µg/L	1	5/23/2022 12:52:00 PM
Pentachlorophenol-TCLP	**ND**	250		µg/L	1	5/23/2022 12:52:00 PM
Pyridine-TCLP	**ND**	100		µg/L	1	5/23/2022 12:52:00 PM
Surr: 2,4,6-Tribromophenol	**78.8**	43.7-123		%REC	1	5/23/2022 12:52:00 PM

Adirondack Environmental Services, Inc

Date: *23-May-22*

CLIENT:	Paradigm Environmental	**Client Sample ID:**	222262-01A
Work Order:	**220519042**	**Collection Date:**	5/13/2022
Reference:	Analysis of Samples / Project# 222264 & 262	**Lab Sample ID:**	220519042-002
PO#:		**Matrix:**	TCLP-EXTRACT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCLP SEMI-VOLATILES - EPA 8270D						Analyst: **MT**
(Prep: SW3535A - 5/23/2022)						
Surr: 2-Fluorobiphenyl	**77.1**	48.7-108		%REC	1	5/23/2022 12:52:00 PM
Surr: 2-Fluorophenol	**46.7**	23.5-101		%REC	1	5/23/2022 12:52:00 PM
Surr: 4-Terphenyl-d14	**76.0**	50.6-121		%REC	1	5/23/2022 12:52:00 PM
Surr: Nitrobenzene-d5	**70.6**	43.7-109		%REC	1	5/23/2022 12:52:00 PM
Surr: Phenol-d6	**39.3**	12.6-93.5		%REC	1	5/23/2022 12:52:00 PM

Adirondack Environmental Services, Inc

Date: *23-May-22*

CLIENT:	Paradigm Environmental	**Client Sample ID:**	222262-02A
Work Order:	**220519042**	**Collection Date:**	5/13/2022
Reference:	Analysis of Samples / Project# 222264 & 262	**Lab Sample ID:**	220519042-003
PO#:		**Matrix:**	TCLP-EXTRACT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCLP METALS - SW1311/6010C						Analyst: **SM**
Arsenic-TCLP	**ND**	0.050		mg/L	1	5/20/2022 12:58:56 PM
Barium-TCLP	**ND**	0.100		mg/L	1	5/20/2022 12:58:56 PM
Cadmium-TCLP	**ND**	0.050		mg/L	1	5/20/2022 12:58:56 PM
Chromium-TCLP	**0.155**	0.050		mg/L	1	5/20/2022 12:58:56 PM
Lead-TCLP	**ND**	0.050		mg/L	1	5/20/2022 12:58:56 PM
Selenium-TCLP	**ND**	0.050		mg/L	1	5/20/2022 12:58:56 PM
Silver-TCLP	**ND**	0.100		mg/L	1	5/20/2022 12:58:56 PM
TCLP SEMI-VOLATILES - EPA 8270D **(Prep: SW3535A - 5/23/2022)**						Analyst: **MT**
1,4-Dichlorobenzene -TCLP	**ND**	50		µg/L	1	5/23/2022 1:18:00 PM
2,4,5-Trichlorophenol-TCLP	**ND**	50		µg/L	1	5/23/2022 1:18:00 PM
2,4,6-Trichlorophenol-TCLP	**ND**	50		µg/L	1	5/23/2022 1:18:00 PM
2,4-Dinitrotoluene-TCLP	**ND**	50		µg/L	1	5/23/2022 1:18:00 PM
Cresols, Total-TCLP	**ND**	200		µg/L	1	5/23/2022 1:18:00 PM
Hexachlorobenzene-TCLP	**ND**	50		µg/L	1	5/23/2022 1:18:00 PM
Hexachlorobutadiene-TCLP	**ND**	50		µg/L	1	5/23/2022 1:18:00 PM
Hexachloroethane-TCLP	**ND**	50		µg/L	1	5/23/2022 1:18:00 PM
Nitrobenzene-TCLP	**ND**	50		µg/L	1	5/23/2022 1:18:00 PM
Pentachlorophenol-TCLP	**ND**	250		µg/L	1	5/23/2022 1:18:00 PM
Pyridine-TCLP	**ND**	100		µg/L	1	5/23/2022 1:18:00 PM
Surr: 2,4,6-Tribromophenol	**78.1**	43.7-123		%REC	1	5/23/2022 1:18:00 PM
Surr: 2-Fluorobiphenyl	**86.0**	48.7-108		%REC	1	5/23/2022 1:18:00 PM
Surr: 2-Fluorophenol	**74.8**	23.5-101		%REC	1	5/23/2022 1:18:00 PM
Surr: 4-Terphenyl-d14	**78.9**	50.6-121		%REC	1	5/23/2022 1:18:00 PM
Surr: Nitrobenzene-d5	**74.0**	43.7-109		%REC	1	5/23/2022 1:18:00 PM
Surr: Phenol-d6	**68.8**	12.6-93.5		%REC	1	5/23/2022 1:18:00 PM

Adirondack Environmental Services, Inc

Date: *23-May-22*

CLIENT: Paradigm Environmental
Work Order: 220519042
Project: Analysis of Samples

ANALYTICAL QC SUMMARY REPORT

BatchID: 93503

mblk

SeqNo: **3316135** PrepDate:**5/19/2022** TestNo: **SW1311/8321** RunNo: **207434**
Samp ID: **mb-93503** PrepRef:**(SW3535A)** Units: **mg/L** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-TP (Silvex)-TCLP	ND	0.050									
2,4-D-TCLP	ND	0.050									
Surr: Acifluorfen	0.4305	0.050	0.5	0	86.1	52.5	128	0	0		
Surr: DCAA	0.2904	0	0.5	0	58.1	56.2	139	0	0		

lcs

SeqNo: **3316136** PrepDate:**5/19/2022** TestNo: **SW1311/8321** RunNo: **207434**
Samp ID: **LCS-93503 0.05** PrepRef:**(SW3535A)** Units: **mg/L** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-TP (Silvex)-TCLP	0.0503	0.050	0.05	0	101	57.6	128	0	0		
2,4-D-TCLP	ND	0.050	0.05	0	79.4	52	138	0	0		
Surr: Acifluorfen	0.419	0.050	0.5	0	83.8	52.5	128	0	0		
Surr: DCAA	0.4741	0	0.5	0	94.8	56.2	139	0	0		

ms

SeqNo: **3316261** PrepDate:**5/19/2022** TestNo: **SW1311/8321** RunNo: **207434**
Samp ID: **220518055-001a** PrepRef:**(SW3535A)** Units: **mg/L** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-TP (Silvex)-TCLP	ND	0.10	0.1	0	80.4	53.1	121	0	0		
2,4-D-TCLP	0.1031	0.10	0.1	0	103	57.3	136	0	0		
Surr: Acifluorfen	1.144	0.10	1	0	114	52.5	128	0	0		
Surr: DCAA	1.079	0	1	0	108	56.2	139	0	0		

msd

SeqNo: **3316262** PrepDate:**5/19/2022** TestNo: **SW1311/8321** RunNo: **207434**
Samp ID: **220518055-001a** PrepRef:**(SW3535A)** Units: **mg/L** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-TP (Silvex)-TCLP	ND	0.10	0.1	0	80.4	53.1	121	0.08036	0	20.8	
2,4-D-TCLP	0.1069	0.10	0.1	0	107	57.3	136	0.1031	3.62	20	
Surr: Acifluorfen	1.199	0.10	1	0	120	52.5	128	0	0	0	
Surr: DCAA	1.071	0	1	0	107	56.2	139	0	0	0	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Paradigm Environmental
Work Order: 220519042
Project: Analysis of Samples

ANALYTICAL QC SUMMARY REPORT

BatchID: 93512

mblk

SeqNo: **3316363** PrepDate:**5/19/2022** TestNo: **SW1311/8081** RunNo: **207448**
Samp ID: **mb-93512** PrepRef:**(SW3535A)** Units: **mg/L** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlordane-TCLP	ND	0.010									
Endrin-TCLP	ND	0.0020									
gamma-BHC(Lindane)-TCLP	ND	0.0020									
Heptachlor epoxide-TCLP	ND	0.0020									
Heptachlor-TCLP	ND	0.0020									
Methoxychlor-TCLP	ND	0.010									
Toxaphene-TCLP	ND	0.020									
Surr: Decachlorobiphenyl-TCLP	0.00754	0	0.01	0	75.4	51.5	141	0	0		

lcs

SeqNo: **3316364** PrepDate:**5/19/2022** TestNo: **SW1311/8081** RunNo: **207448**
Samp ID: **lcs-93512** PrepRef:**(SW3535A)** Units: **mg/L** Analysis Date: **5/19/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlordane-TCLP	0.01876	0.010	0.02	0	93.8	51.4	134	0	0		
Endrin-TCLP	0.00848	0.0020	0.01	0	84.8	46.1	132	0	0		
gamma-BHC(Lindane)-TCLP	0.00932	0.0020	0.01	0	93.2	47.4	116	0	0		
Heptachlor epoxide-TCLP	0.00934	0.0020	0.01	0	93.4	52.4	130	0	0		
Heptachlor-TCLP	0.0098	0.0020	0.01	0	98	45.2	109	0	0		
Methoxychlor-TCLP	ND	0.010	0.01	0	56.6	43.2	134	0	0		
Surr: Decachlorobiphenyl-TCLP	0.00724	0	0.01	0	72.4	51.5	141	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Paradigm Environmental
Work Order: 220519042
Project: Analysis of Samples

ANALYTICAL QC SUMMARY REPORT

BatchID: 93557

mblk

SeqNo: **3318002** PrepDate:5/23/2022 TestNo: **SW1311/8270** RunNo: **207541**
Samp ID: **mb-93557** PrepRef:(SW3535A) Units: **µg/L** Analysis Date: **5/23/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene -TCLP	ND	50									
2,4,5-Trichlorophenol-TCLP	ND	50									
2,4,6-Trichlorophenol-TCLP	ND	50									
2,4-Dinitrotoluene-TCLP	ND	50									
Hexachlorobenzene-TCLP	ND	50									
Hexachlorobutadiene-TCLP	ND	50									
Hexachloroethane-TCLP	ND	50									
Nitrobenzene-TCLP	ND	50									
Pentachlorophenol-TCLP	ND	250									
Pyridine-TCLP	ND	100									
Cresols, Total-TCLP	ND	200									
Surr: 2,4,6-Tribromophenol	423.8	50	500	0	84.8	43.7	123	0	0		
Surr: 2-Fluorobiphenyl	195.3	50	250	0	78.1	48.7	108	0	0		
Surr: 2-Fluorophenol	371.5	50	500	0	74.3	23.5	101	0	0		
Surr: 4-Terphenyl-d14	204.2	0	250	0	81.7	50.6	121	0	0		
Surr: Nitrobenzene-d5	185.2	0	250	0	74.1	43.7	109	0	0		
Surr: Phenol-d6	339.2	0	500	0	67.8	12.6	93.5	0	0		

lcs

SeqNo: **3318003** PrepDate:5/23/2022 TestNo: **SW1311/8270** RunNo: **207541**
Samp ID: **lcs-93557** PrepRef:(SW3535A) Units: **µg/L** Analysis Date: **5/23/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene -TCLP	143.8	50	250	0	57.5	36.3	94	0	0		
2,4,5-Trichlorophenol-TCLP	207.2	50	250	0	82.9	50.6	117	0	0		
2,4,6-Trichlorophenol-TCLP	205.6	50	250	0	82.2	53	121	0	0		
2,4-Dinitrotoluene-TCLP	158.6	50	250	0	63.4	50.1	121	0	0		
Hexachlorobenzene-TCLP	194.6	50	250	0	77.8	54.2	125	0	0		
Hexachlorobutadiene-TCLP	181.7	50	250	0	72.7	34.3	96	0	0		
Hexachloroethane-TCLP	142.2	50	250	0	56.9	33	97	0	0		
Nitrobenzene-TCLP	179.8	50	250	0	71.9	49	115	0	0		
Pentachlorophenol-TCLP	ND	250	250	0	79.6	43.3	132	0	0		
Pyridine-TCLP	ND	100	250	0	25.6	16.3	84	0	0		
Cresols, Total-TCLP	554.6	200	750	0	73.9	44	121	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Paradigm Environmental
Work Order: 220519042
Project: Analysis of Samples

ANALYTICAL QC SUMMARY REPORT

BatchID: 93557

lcs	SeqNo: **3318003**	**PrepDate:5/23/2022**	TestNo: **SW1311/8270**	RunNo: **207541**
	Samp ID: **lcs-93557**	**PrepRef:(SW3535A)**	Units: **µg/L**	Analysis Date: **5/23/2022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	433.1	50	500	0	86.6	43.7	123	0	0		
Surr: 2-Fluorobiphenyl	200.9	50	250	0	80.4	48.7	108	0	0		
Surr: 2-Fluorophenol	341.2	50	500	0	68.2	23.5	101	0	0		
Surr: 4-Terphenyl-d14	194.1	0	250	0	77.6	50.6	121	0	0		
Surr: Nitrobenzene-d5	187.8	0	250	0	75.1	43.7	109	0	0		
Surr: Phenol-d6	303.6	0	500	0	60.7	12.6	93.5	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

2205190 42
1 of 1

CHAIN OF CUSTODY

NEC - Metals

ELAP ID: 10709

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:		ADDRESS:			
CITY: STATE: ZIP:		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:		PHONE: FAX:		STD / OTHER	
PROJECT NAME/SITE NAME:		ATTN:	Reporting	ATTN:	Accounts Payable
		COMMENTS:	Please email results to reporting@paradigmenv.com	☐ 1 ☐ 2 ☐ 3 ☐ 5 ☐	Date Due: 5/24/22

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	TCLP Herbicides	TCLP Pesticides	TCLP SVOA	TCLP Metals	Cao (Hg)						REMARKS	PARADIGM LAB SAMPLE NUMBER				
						TCLP extract																	
1	5/13/22	09:30	X		222262-01A		2	X	X	X	X							Batch QC			0	0	2
2	5/13/22	09:30	X		222262-02A	↓	2			X	X												
3																		Spun at Paradigm 5/17/22			0	0	3
4																							
5																							
6																							
7																							
8																							
9																							
10																							

****LAB USE ONLY BELOW THIS LINE****

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Comments:		
Preservation:	Y ☐	N ☐
Comments:		
Holding Time:	Y ☐	N ☐
Comments:		
Temperature: 4°C	Y ☐	N ☐
Comments:		

Client

Sampled By	Date/Time	Total Cost:
2P	5/19/22 08:30	
Relinquished By	Date/Time	
Ryan Zacher	5/19/22 1:27	
Received By	Date/Time	P.I.F.
	5/19/22	
Received @ Lab By	Date/Time	

Adirondack Environmental Services Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

(a) Neither **Adirondack Environmental Services, Inc.,** nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.

(b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.

(c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.

(d) In no event shall **Adirondack Environmental Services, Inc.,** its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.

(e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**

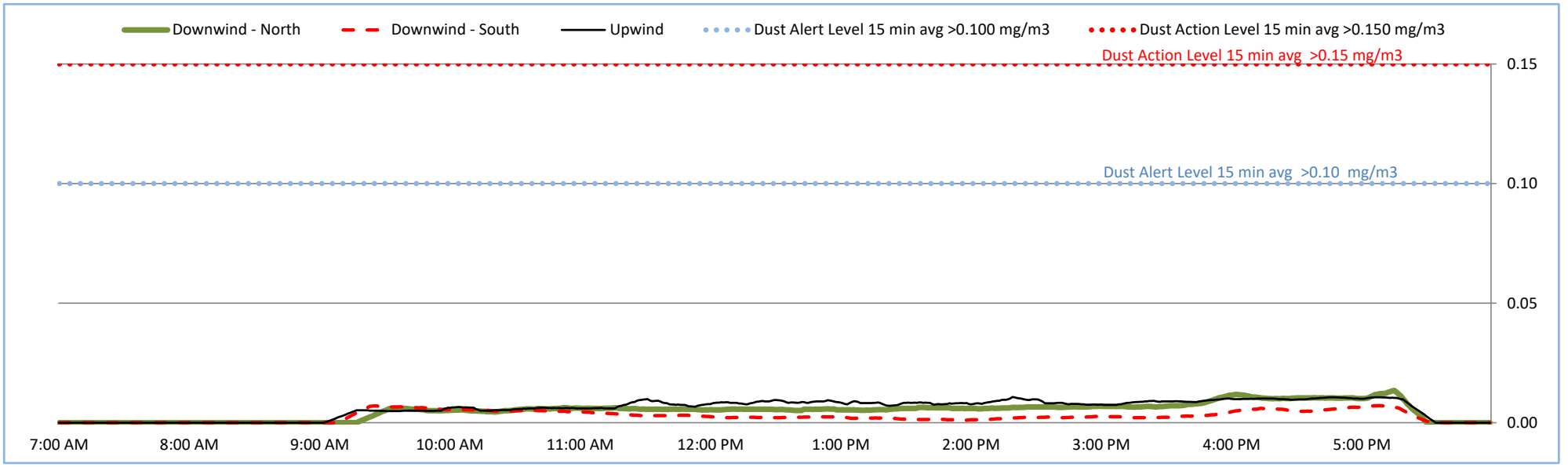
(f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.

(g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.

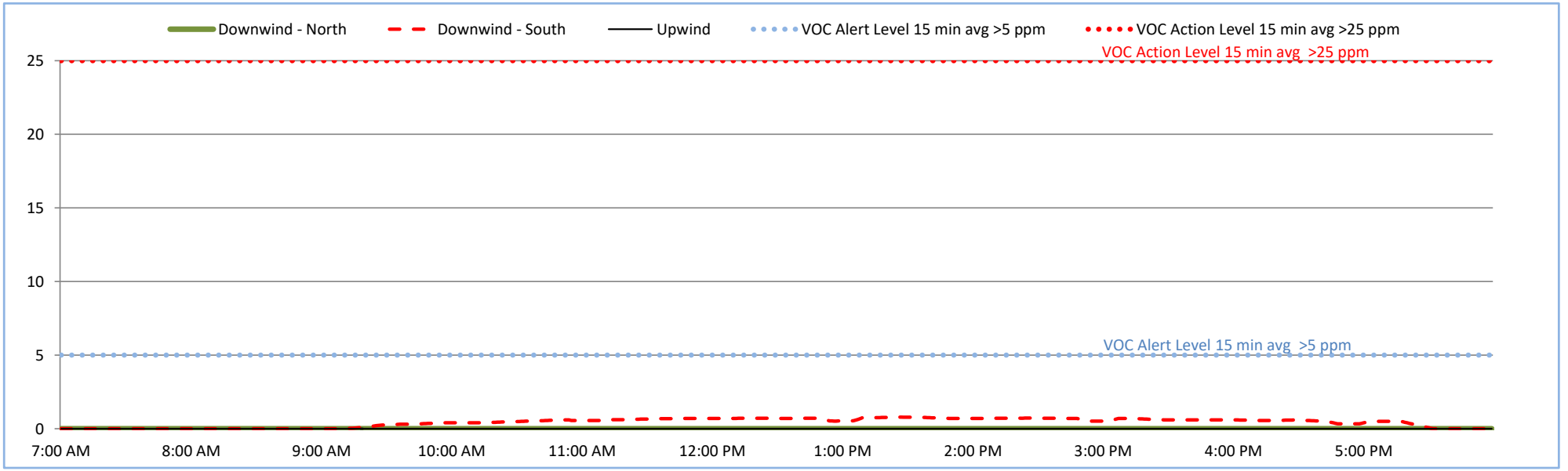
Appendix C – CAMP Data

Fixed Station Daily Air Monitoring - May 13, 2021

Dust (mg/m3) 15 min avg

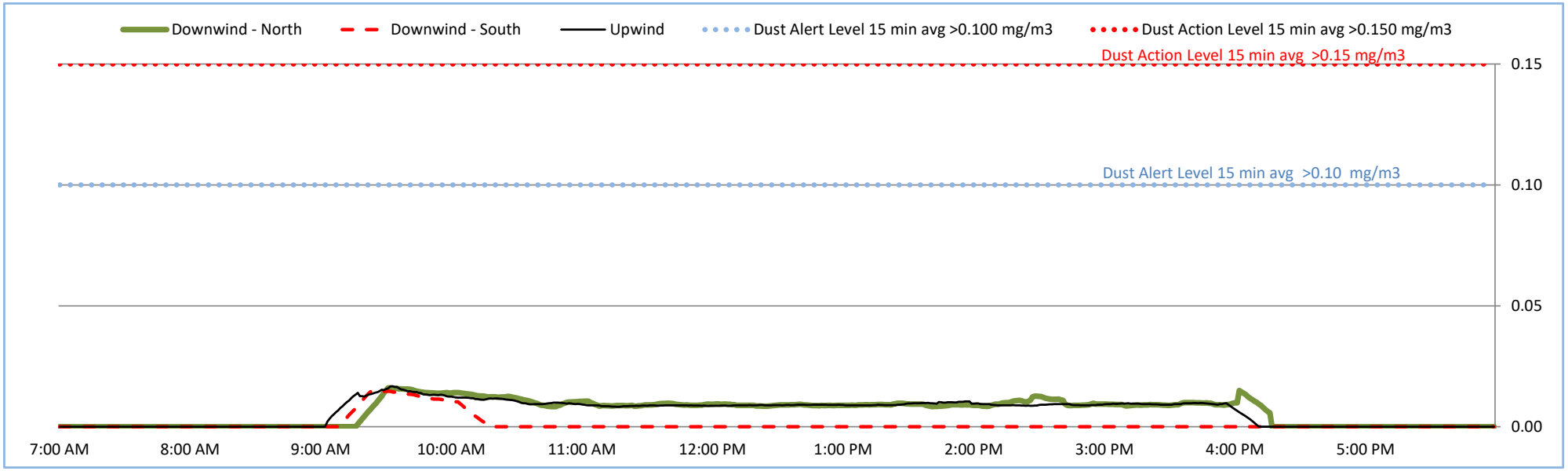


VOC (ppm) 15 min avg

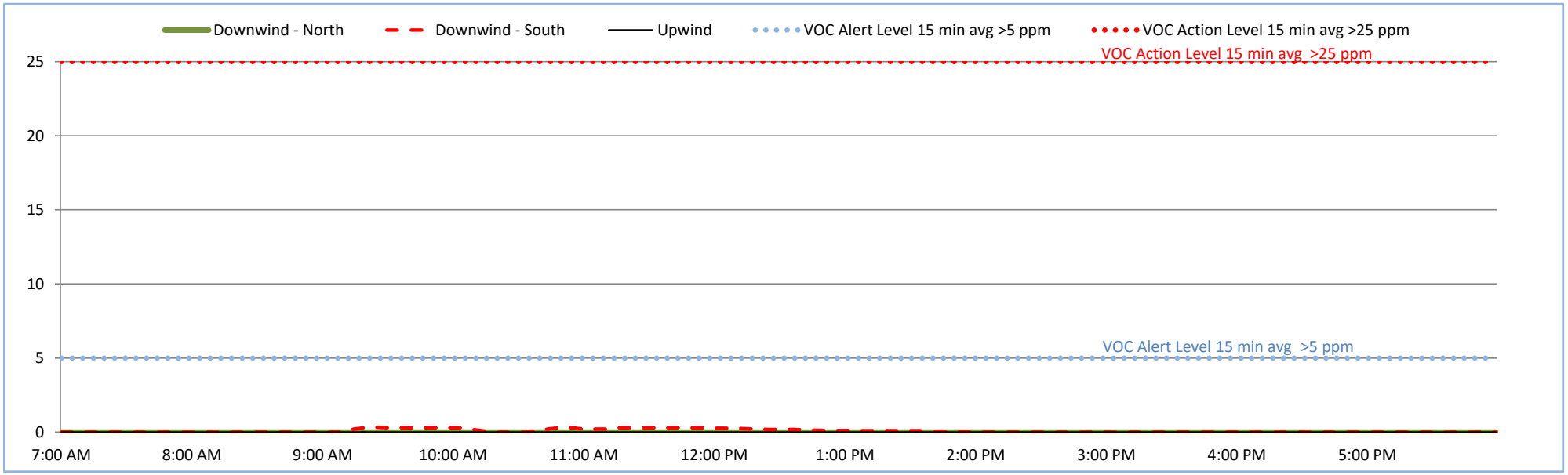


Fixed Station Daily Air Monitoring - May 17, 2021

Dust (mg/m3) 15 min avg

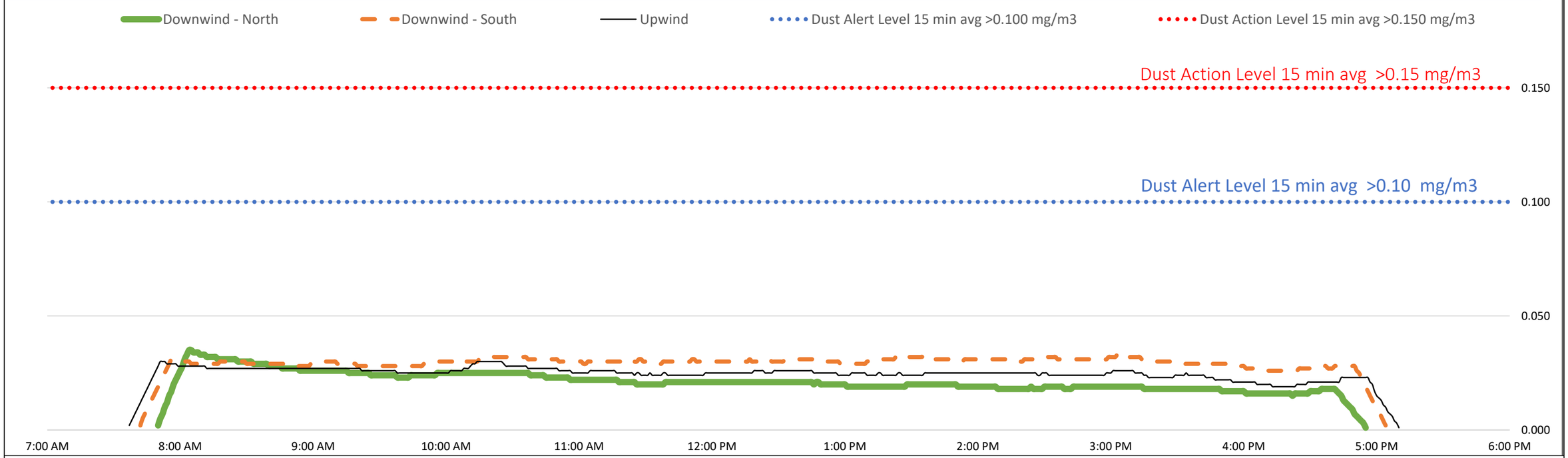


VOC (ppm) 15 min avg

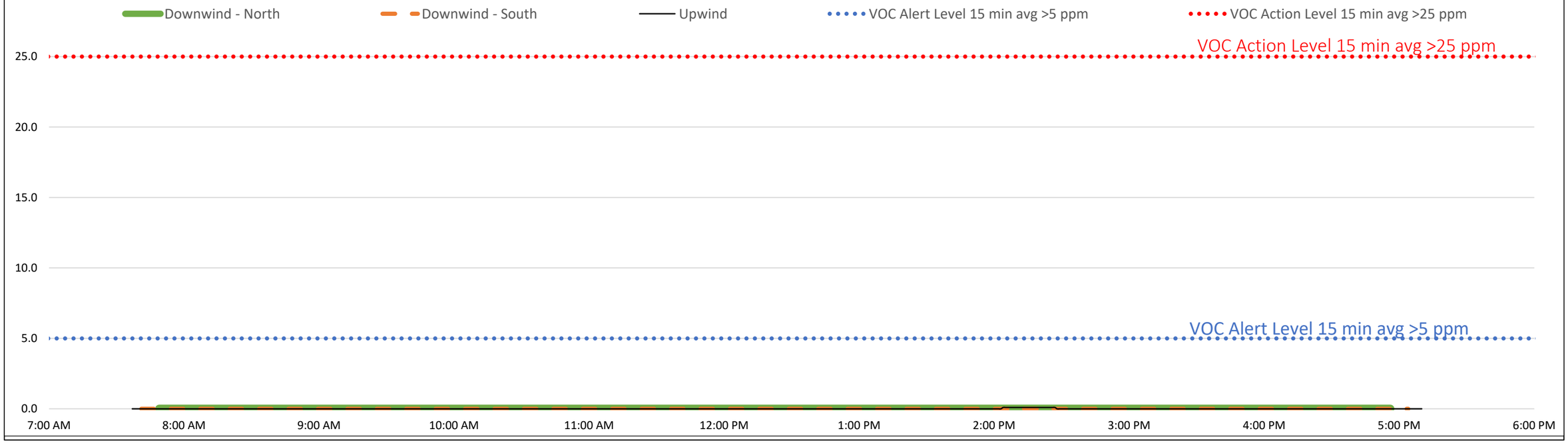


Fixed Station Daily Air Monitoring - August 23, 2022

Dust (mg/m3) 15 min avg

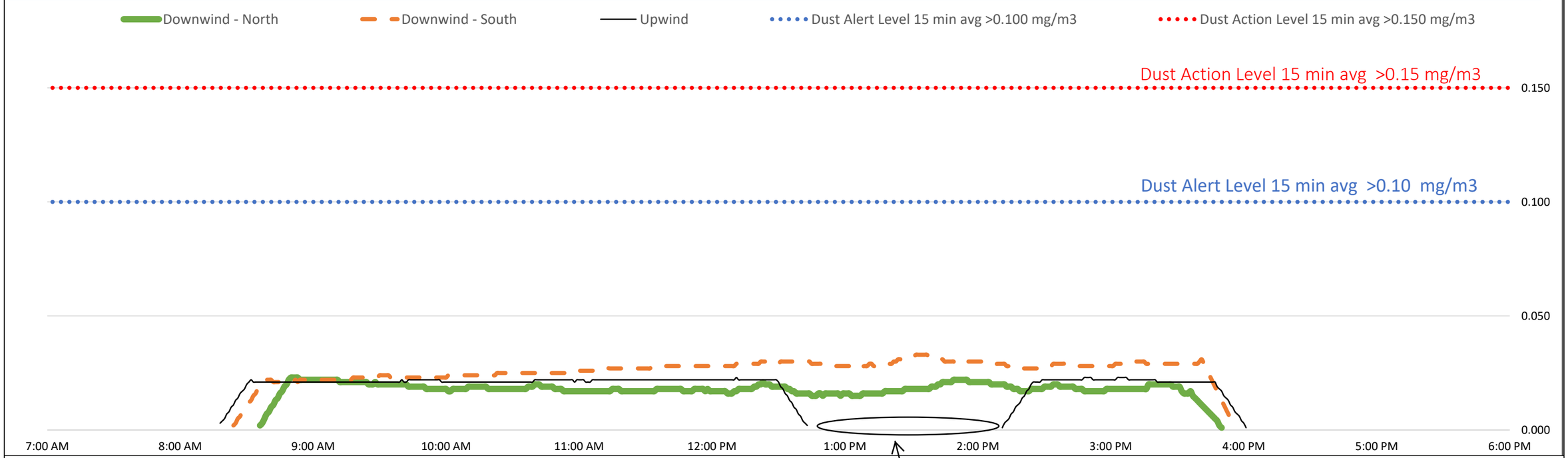


VOC (ppm) 15 min avg



Fixed Station Daily Air Monitoring - August 24, 2022

Dust (mg/m3) 15 min avg



VOC (ppm) 15 min avg