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SUPPLEMENTAL PHASE II ENVIRONMENTAL SITE INVESTIGATION

Providence Housing – Lot I Wambach Farms 2590 Culver Road

Town of Irondequoit, Monroe County, New York

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1.0 INTRODUCTION

At the request of Providence Housing (Providence), Bergmann conducted a Supplemental Phase II Environmental Site Investigation concurrently with an additional geotechnical survey, to further characterize the nature and extent of the landfilled materials and associated impacts on soil, groundwater, and soil vapor quality. Therefore, evaluated areas included potential landfilled and non-filled locations associated with the proposed development areas and the former filled ravine identified as a Recognized Environmental Condition (REC) during previous investigations. The former Wambach Farm parcel (SBL 092.10-3-2) is located at 2590 Culver Road, Town of Irondequoit, Monroe County, New York (Site), see Figure 1 – Site Location Map. This parcel is also known as Lot 1 Wambach Farms. The planned redevelopment for this site is multi-family housing that is constant with NYSDEC Restricted Use Soil Cleanup Objective levels for evaluation of soil quality. The Supplemental Phase II Environmental Site Investigation was recommended by Bergmann based on the findings of the Phase I ESA and Phase II ESA reports dated September 2020 and December 2020, respectively. The following RECs were identified in the Phase I ESA for the Site that required further subsurface investigation:

- A Freedom of Information Law (FOIL) Response from Monroe County identifies the Subject Property as a suspected site for unknown waste. The response is provided in Appendix F. No further information was provided to Bergmann. It is noted that a geotechnical report for an adjacent parcel to the east, completed by Foundation Design, PC on July 3, 2019, indicated the presence of fill. The report indicated that the fill material may be associated with two (2) separate filling operations that involved ash/cinder to fill an east/west drainage ravine and a mass fill that covered the west end of this parcel.
- A potential fill port was observed on the exterior of the two-story residential house located on the Subject Property.
- A gasoline station is located adjacent to the west of the Subject Property at 2579 Culver Road. Several spills are documented with this property including an active gasoline spill (NYSDEC Spill #0751369) that required a site investigation and remedial action. The Site Investigation Report indicates that monitoring wells were installed on off-site properties to the north and east as it was determined that groundwater flows northeast. It is unknown if monitoring wells were installed on the Subject Property as part of the site investigation.
- There are several documented spills involving petroleum and pesticides within approximately 0.10-miles of the Subject Property.

The following REC was identified in the Phase I and Phase II ESA for the Site that required further subsurface investigation:

- Additional subsurface investigation is recommended to characterize the nature and extent of the landfilled materials and there impacts on soil, groundwater, and soil gas quality. The results would be used to evaluate remedial alternatives with subsequent preparation of a site management plan/site excavation plan.

Bergmann's New York State Licensed Professional Geologist (PG) monitored the Supplemental Phase II Environmental Site Investigation (Supplemental Phase II ESA) and concurrent Geotechnical Survey field work that included the installation of test pits, field screening excavated materials, and collection of soil samples on May 7, 2021. The purpose of this Supplemental Phase II ESA is to evaluate the presence or absence of identified REC-related impacts that required subsurface investigation in accordance with our proposal dated May 2021. The location of the Site vicinity is presented on Figure 1 and the approximate locations of test pit excavations are shown on Figure 2 – Test Pit Location Map.

2.0 SITE INVESTIGATION METHODS / SOIL SAMPLING AND FIELD SCREENING

The Supplemental Phase ll Environmental Site Investigation, included installation of test pits with collection of soil samples based on field soil screening and visual observations concurrent with the supplemental geotechnical survey. The methods used are presented in Section 2.1, below.

2.1 SUBSURFACE EXPLORATIONS

The Supplemental Phase II ESA included the installation of fifteen (15) test pit excavations designated TP21-24 through TP21-40 at the Site to allow for further investigation of RECs. Test Pits TP21-27 and TP21-33 were not excavated at the direction of the geotechnical engineering firm (Foundation Design), as their proposed locations were close to previously excavated Phase II ESA test pits or located in areas of thicker landfilled materials. The test pit excavations were installed using a Caterpillar (CAT) 250 excavator under the supervision of the Foundation Design, PC for geotechnical investigation and Bergmann's New York State Licensed Professional Geologist (Bergmann PG) for the Supplemental Phase ll ESA observations, monitoring, and sampling. The approximate locations of the test pit excavations are presented on Figure 2. Test pits were excavated to completion depths ranging from approximately four (4) to twenty (20) feet below ground surface (bgs). All test pit excavations were backfilled to ground surface.

The Bergmann PG visually logged and recorded the grain size, color, relative moisture content, and visual observations/odors, if present, for excavated soils/fill materials on an environmental test pit log. Test pit logs are presented in Appendix 1 – Test Pit Logs. Each soil sample was screened for Volatile Organic Compound (VOC) vapors in the field with a Photoionization Detector (PID). The PID measures total organic vapors in parts per million (ppm). Soil field screening (PID) measurements are summarized in Section 3.1 of this report and presented on each Test pit log. PID measurements ranged from non-detect (ND) to 0.2 ppm for soils screened from each test pit location.

Soil samples were selected for laboratory analysis from ten (10) test pit locations based on PID field screening results, olfactory and visual observations. Selected soil samples were placed into laboratory-supplied sample containers, labeled for identification, and preserved on ice. These samples were submitted under chain-of-custody documentation to Paradigm Environmental Services of Rochester, New York, for analysis in accordance with EPA Method 8260C Volatile Organic Compounds (VOCs) CP-51 list (gasoline VOCs), EPA Method 8260C TAL (solvents), EPA Method 8270D Semi-Volatile Organic Compounds (SVOCs) CP-51 list (fuel oil SVOCs) and EPA Method 7471B/6010C RCRA 8 Metals (Metals), and EPA Method 8081B Pesticides, EPA Method 8151A Herbicides.

3.0 INVESTIGATIVE FINDINGS OVERBURDEN GEOLOGY

Four (4) overburden soil deposits were encountered at the test pit locations. The overburden deposits encountered, with an increasing depth, include fill, buried topsoil, lacustrine, and glacial till. The fill deposits represent soils that have been transported to the Site and landfilled containing what appear to be urban fill materials intermixed with construction and demolition (C&D) materials/debris. Theses fill materials range in thickness from approximately two (2) to greater than fifteen (15) feet below ground surface (bgs) and are generally distributed across the Site in a former ravine. This fill material has a wide range of descriptions including brown GRAVEL, little coarse to fine sand, with wood, concrete, metal, plastic, and glass fragments to black coarse to fine sand, with boulders, slag, wood, brick, metal, ash, and cinders. It appears that these fill materials are likely from many sources and appeared to be primarily sourced from construction waste based on observations. The lacustrine deposit underlies the fill deposit. A buried topsoil deposit that overlies the lacustrine deposit was

observed in TP21-37 and is one (1) foot thick from 2.9 ft. to 3.9 ft. below ground surface (bgs). The buried topsoil represents the original ground surface and was described as Gray SILT, with root fibers. The lacustrine descriptions ranged from light brown fine SAND, little silt, trace clay to light brown fine SAND, little silt, trace clay with brown SILT, trace clay seams. Glacial till was observed below the lacustrine deposit and was described as Red-brown GRAVEL, some silt, trace coarse to fine sand. The soil descriptions vary and are described for soil observed at each test pit excavation on test pit logs presented in Appendix 1 – Test Pit Logs.

3.1 SOIL FIELD SCREEN RESULTS

Each soil sample was field screened with a PID for total organic vapors. Results for PID measurements are presented on the test pit logs at sample depth intervals, see Appendix 1. The PID measurements on soils excavated ranged from non-detect (ND) to 0.2 ppm. Therefore, elevated PID measurements for total organic vapors were not detected from soil excavated at each test pit location.

4.0 SOIL QUALITY

Ten (10) soil samples from TP21-38 (4.0-4.5 ft.), TP21-37 (2.5-3.0 ft.), TP21-36 (2.5-3.0 ft.), TP21-34 (12.5-13.0 ft.), TP21-24 (18.0-18.5 ft.), TP21-25 (3.0-3.5 ft.), TP21-28 (5.0-5.5 ft.), TP21-40 (3.5-4.0ft.), TP21-31 (11.0-11.5ft.) and TP21-35 (3.0-3.5ft.) were selected based on PID measurements, olfactory/visual observations and submitted for laboratory analysis of VOCs, SVOCs, RCRA metals, pesticides, and herbicides.

4.1 VOLATILE ORGANIC COMPOUNDS – VOCS

The laboratory VOCs results (solvent and gasoline chemical compounds) from four (4) samples TP21-24 (18-18.5ft.), TP21-25 (3.0-3.5ft.), and TP21-40 (3.5-4.0ft.) were non-detect (ND) with concentrations below the laboratory method detection limits in all four of the samples. Test-pit locations TP21-31 (11.0-11.5ft.) and TP21-35 (3.0-3.5ft.) were detected with concentrations below the NYSDEC Unrestricted Use Soil Cleanup Objectives UUSCO and Restricted-Residential Use Soil Cleanup Objectives (RRUSCO) levels.

Acetone was detected in TP21-28 (5.0-5.5 ft.) at 0.092, TP21-38 (4.0-4.5ft.) at 0.252 ppm, TP21-37 (2.5-3.0ft.) at 0.949 ppm, TP21-36 (2.5-3.0 ft.) at 0.121 ppm, and TP21-34 (12.5-13.0 ft.) at 0.169 ppm. The level of Acetone exceeds the UUSCOs and is below the RRSCOs level, see Table 1 – VOC Analytical Summary. The laboratory report is presented in Appendix 2 – Laboratory Analytical Report.

It appears that low levels of Acetone (a common solvent) have been released to the subsurface soils at these sample locations and there is a potential for vapor intrusion and vapor encroachment conditions from the fill soils into future buildings that are proposed for restricted residential use. These results regarding potential vapor intrusion and vapor encroachment conditions are consistent with our finding during the Phase II ESA when nuisance odors and slight petroleum odors were noted. The laboratory reports are presented in Appendix 2 – Laboratory Analytical Reports. Sample locations are shown on Figure 2.

4.2 SEMI-VOLATILE PETROLEUM COMPOUNDS – SVOCS

The laboratory SVOCs results from samples are TP21-36 (2.5-3.0ft) indicate detection of five (5) individual SVOCs at concentrations above UUSCO values and three (3) exceed RRUSCO values that include: Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (K) fluoranthene, Chrysene, and Indeno(1,2.3-cd) pyrene in sample TP21-36. Levels detected include, Benzo (a) anthracene (1.94 ppm), Benzo (a) pyrene (1.56 ppm), Benzo (b) fluoranthene (1.2 ppm), Chrysene (1.68 ppm), and Indeno (1,2.3-cd) pyrene (0.785 ppm) in TP21-36 (2.5-3.0ft.),

TP21-24 (18-18.5ft.), and TP21-25 (2.5-3.0ft.) exceed RRUSCO levels. The sample results for the test pit locations that exceeded UUSCOs and RRUSCOs are as listed below:

SVOC	Test Pit Location	Concentration Range (ppm)	UUSCOs (ppm)	RRUSCOs (ppm)
Benzo (a) anthracene	TP21-36 (2.5-3.0 ft.)	1.94	1	1
Benzo (a) pyrene	TP21-36 (2.5-3.0 ft.)	1.56	1	1
Benzo (b) fluoranthene	TP21-36 (2.5-3.0 ft.)	1.2	1	1
Benzo (K) fluoranthene	TP21-36 (2.5-3.0 ft.)	1.2	1	1
Chrysene	TP21-36 (2.5-3.0 ft.)	1.68	1	3.9
Indeno (1,2,3-cd) pyrene	TP21-36 (2.5-3.0 ft.), TP21-24 (18-1 and TP21-25 (2.5-3.0ft.)	0.595 to 1.385	0.5	500

The level of Benzo (a) pyrene at 1.56 ppm also exceeds the Commercial Use Soil Cleanup Objective level of 1 ppm in sample TP21-36. The SVOCs detected are likely Polycyclic Aromatic Hydrocarbons (PAHs) and are typically associated with incomplete combustion in materials such as cinder and ash. These results for SVOCs are consistent with our Phase II ESA results for fill materials impacted at levels that will require soil management and limited soil removal to allow for a potential residential re-development. A complete summary of detected SVOCs is presented in Table 2 – SVOC Analytical Summary. The locations of the samples are shown on Figure 2. The laboratory results are presented in Appendix 2.

4.3 RCRA 8 METALS

Resource Recovery and Conservation Act (RCRA) lists eight (8) heavy metals that are toxic and are commonly referred to as the RCRA 8 metals. These metals are arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. Laboratory analytical soil sample results indicate detection of five (5) metals in each of the test pit samples. Arsenic, Barium, Chromium, Lead, and Mercury were detected in these soil samples. Barium, Chromium, and Mercury were detected at levels below UUSCOs, while Arsenic was detected at levels exceeding CUSCO level of 16 ppm and Lead was detected at levels exceeding the UUSCO level of 63 ppm.

The concentration of Arsenic detected at 50.9 ppm in TP 21-31 (11.0-11.5ft.) exceeds the UUSCO level of 13 ppm, RRUSCO of 16 ppm, and CUSCO of 16 ppm. Concentrations of Lead in samples TP21-38 (4.0-4.5ft.) at 80.9 ppm, TP21-28 (5.0-5.5ft) at 79.9 ppm, TP21-36 (2.5-3.0ft.) at 82.7 ppm, TP21-34 (12.5-13.0ft.) at 69.6 ppm, and at TP 21-24 (18-18.5ft.) at 356 ppm exceed the UUSCO level of 63 ppm.

The source of the detected metals is likely from the fill soils/landfilled materials and may be from cinders, ash, and observed in the fill soils. These results are consistent with our Phase II ESA results and metals impacts in soils/fill materials would also be included in soil management for the Site. The concentration of metals that exceed UUSCO, RRUSCO and CUSCO is summarized in the table below. Metals sample results are summarized in and attached Table 3 – RCRA Metals Analytical Summary presents the laboratory data summary. The laboratory results are presented in Appendix 2.

Metal	Test Pit Location	Concentration Range (ppm)	UUSCOs (ppm)	RRUSCOs (ppm)	CUSCOs (ppm)
Arsenic	TP21-31	50.9	13	16	16
Lead	TP21-24, TP21-28, TP21-34, TP21-36, TP21-38	69.6 to 356	63	400	400

The laboratory analytical report is presented in Appendix 2. The approximate test pit sample locations are presented on Figure 2.

4.4 CHLORINATED PESTICIDES

Laboratory chlorinated pesticides (pesticides) sample results from TP21-24, TP21-25, TP21-28, TP21-35, TP21-36, and TP21-38 indicate detection of five (5) pesticides that exceed UUSCOs levels and are below RRUSCOs. These pesticides include Aldrin, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and Dieldrin. The results for Dieldrin samples TP21-31 (11.0-11.5 ft.) and TP-40 (3.5-4.0 ft.) exceed the RRUSCO level 0.200 ppm. Results for samples TP21-37 (2.5-3.0 ft.) were non-detect above the method detection limits. The concentration of pesticides in the table below presents the range of pesticide concentrations That exceed UUSCO and RRUSCO levels. Pesticide results are summarized in attached Table 4 – Pesticide Analytical Summary. The laboratory results are presented in Appendix 2.

Pesticide	Test Pit Location	Concentration Ran (ppm)	UUSCOs (ppm)	RRUSCO (ppm)
Aldrin	TP21-38, TP21-31	0.00645 to 0.0948	0.005	0.097
4,4'-DDD	TP21-38, TP21-36, TP21-24, TP21-28, TP21-35	0.00734 to 0.0151	0.0033	13
4,4'-DDE	TP21-38, TP21-36, TP21-24, TP21-35	0.0051 to 0.00628	0.0033	8.9
4,4'-DDT	TP21-28, TP21-35	0.0036 to 0.0051	0.0033	7.9
Dieldrin	TP21-38, TP21-36, TP21-28, TP21-40, TP21-31, TP TP21-35	0.00832 to 0.649	0.005	0.2

The source(s) of the pesticides is likely from the former farming uses on the Site and from imported fill that has been landfilled based on detection of pesticides in shallow and deeper soil samples. Elevated pesticide levels are consistent with our Phase II ESA results and would also be addressed in a soil management plan. The laboratory reports are presented in Appendix 2. The test pit sample locations are presented on Figure 2.

4.4 HERBICIDES

Laboratory herbicides sample results from TP20-7 (0.5 - 0.7 ft.), TP20-10 (5.0-5.5 ft.), TP20-11 (6.0-7.0 ft.), TP20-16 (8.0-8.5 ft.), and TP20-18 (0.5-0.7 ft.) indicate non-detection above the laboratory method detection limits.

5.0 SUMMARY AND CONCLUSIONS

The following is a summary of the Site subsurface conclusions based upon the Supplemental Phase II ESA findings, observations, laboratory results and project Limitations – Appendix 3 Limitations.

1. The overburden soil deposits encountered include, buried topsoil, a fill deposit, a lacustrine deposit and a glacial till deposit. The buried topsoil was approximately 0.5 ft. in thickness and overlies the lacustrine deposit at TP21-37 that represents the original land surface. Significant fill soils/fill materials have been transported to the Site and landfilled that contain what appears to be urban fill materials, road work debris with construction and demolition (C&D) materials/debris. Theses fill materials range in thickness from approximately eight (8) to greater than fifteen (15) feet bgs and are generally distributed across the Site in a former ravine. Depths of fill materials are anticipated to be approximately twenty (20) feet bgs in some areas of the former ravine based on our review of historic topographic maps. This fill material has a wide range of descriptions that include brown GRAVEL, little coarse to fine sand, with wood, concrete, metal, plastic, and glass fragments to black coarse to fine sand, with boulders, slag, wood, metal, ash, and cinders. It appears that these fill materials are from many sources and primally from construction building debris and road construction waste that also

contains cinders, ash from urban fill based on observations. Overall, soil conditions are consistent with our Phase II ESA findings and confirms that the majority of the Site has been landfilled into the former ravine with fill materials from what appears to be varying sources. Native Lacustrine underlies the fill deposits and consist of light brown SAND, little silt, trace clay. Native glacial till underlies the lacustrine deposit and consist of red-brown GRAVEL, some silt, trace coarse to fine sand.

2. Total organic vapors measured with the PID ranged were ND to 0.2 ppm from soils screened at each Test pit location. However, petroleum nuisance odors were noted during the excavation of test pits TP20-2, TP20-14, and TP20-16 (solvent/petroleum) during the Phase II ESA and Acetone was detected during the Supplemental Phase II ESA in soils at levels that exceeds UUSCOs indicates that there is potential for a vapor intrusion condition and or vapor encroachment from vapors/gases within landfilled fill soils / fill materials into future Site buildings and or residential homes/apartments.

3. Levels of one (1) VOC (Acetone) were detected that exceed UUSCO levels in five (5) out of ten (10) sample locations. Levels of Acetone were below RRUSCO in each of the ten (10) soil samples.

4. Herbicides were not detected above the method detection limits and are below UUSCOs in the soil samples.

5. Concentrations of five (5) individual SVOCs were detected at levels that exceed UUSCOs and three (3) SVOCs exceeded RRSCOs in sample TP21-36 (2.5-3.0 ft.).

6. Levels of two (2) metals that include arsenic and lead exceed the UUSCOs. The concentration of arsenic also exceeded the CUSCOs in sample TP21-36 (2.5-3.0 ft.).

7. Levels of four (4) pesticides detected in soil samples exceed the UUSCOs that include 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and Dieldrin. Dieldrin also exceeded the RRUSCO in two test pits.

8. The sample laboratory results and visual observations from test pit excavations confirmed that the Site has been landfilled and impacted by the RECs presented in Bergmann's Phase I ESA regarding the potential for on-Site fill soils. The Phase II ESA and Supplemental Phase II ESA test pit excavations revealed substantial quantities of undocumented fill soils/fill materials with thicknesses grater than fifteen (15) feet. Fill soil/fill materials (landfilled materials) have been imported to the Site and landfilled into a former ravine that underlies the majority of the Site. The quantity of the landfilled materials is unknown.

9. The results of the Supplemental Phase II ESA has completed the nature and extent of the fill materials in the proposed re-development area and their potential environmental impact for redevelopment of the Site for redistricted residential use.

6.0 RECOMMENDATIONS

The following is our recommendations based upon the ESA findings, observations, and project Limitations – Appendix 3 Limitations.

1. The Phase II ESA and Supplemental Phase II ESA results would be used to evaluate remedial alternatives with subsequent preparation of a site management plan/site excavation plan.

2. Future subsurface investigations should be coordinated with New York State Department of Environmental Conservation (NYSDEC), New York State Department of Health (NYSDOH) and other agencies typically involved in NYSDEC Brownfield Cleanup Program (BCP) to allow for redevelopment of the Site to Restricted-Residential Site Cleanup Objectives.

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TABLES

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Table 1
VOC Analytical Summary
Phase II Environmental Site Assessment
2590 Culver Road
Lot 1 Wambach Farm Property
Providence Housing
Town of Irondequoit, New York

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Analyzed Parameters[1]	Unrestricted Use[2]	Restricted Residential Use[3]	Commercial Use[3]	NYSDEC CP-51 Standards	TP21-38 (4.0-4.5ft.)	TP21-37 (2.5-3.0ft.)	TP21-36 (2.5-3.0 ft.)	TP21-34 (12.5-13.0 ft.)	TP21-24 (18-18.5ft.)
EPA 8260 - TCL Volatile Organics									
1,1,1-Trichloroethane	0.68	100	500		ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	-	-	-	-	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	-	-	-	-	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.27	26	240		ND	ND	ND	ND	ND
1,1-Dichloroethene	0.33	100	500		ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	-	-	-	-	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3.6	52	190		ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	52	190	3.6	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	-	-	-	-	ND	ND	ND	ND	ND
1,2-Dibromomethane	-	-	-	-	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500	500	-	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	3.1	30	-	ND	ND	ND	ND	ND
1,2-Dichloropropane	-	-	-	-	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1.8	100	500	-	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130	130	-	ND	ND	ND	ND	ND
1,4-Dioxane	0.1	13	130		ND	ND	ND	ND	ND
2-Butanone	0.12	100	500		0.042	ND	ND	ND	ND
2-Hexanone	-	-	-	-	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	-	-	-	-	ND	ND	ND	ND	ND
Acetone	0.05	100	500		0.252	0.959	0.121	0.169	ND
Benzene	0.06	2.40	44	0.06	ND	ND	ND	ND	ND
Bromochloromethane	-	-	-	-	ND	ND	ND	ND	ND
Bromodichloromethane	-	-	-	-	ND	ND	ND	ND	ND
Bromoform	-	-	-	-	ND	ND	ND	ND	ND
Bromomethane	-	-	-	-	ND	ND	ND	ND	ND
Carbon Disulfide	-	-	-	-	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.76	2.4	22		ND	ND	ND	ND	ND
Chlorobenzene	-	-	-	-	ND	ND	ND	ND	ND
Chloroethane	-	-	-	-	ND	ND	ND	ND	ND
Chloroform	0.37	49	350		ND	ND	ND	ND	ND
Chloromethane	-	-	-	-	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.25	100	500		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	-	-	-	-	ND	ND	ND	ND	ND
Cyclohexane	-	-	-	-	ND	ND	ND	ND	ND
Dibromochloromethane	-	-	-	-	ND	ND	ND	ND	ND
Dichlorodifluoromethane	-	-	-	-	ND	ND	ND	ND	ND
Ethylbenzene	1	41	390	1	ND	ND	ND	ND	ND
Freon 113	-	-	-	-	ND	ND	ND	ND	ND
Isopropylbenzene	-	-	-	2.3	ND	ND	ND	ND	ND
m,p-Xylene	-	-	-	-	ND	ND	ND	ND	ND
Methyl acetate	-	-	-	-	ND	ND	ND	ND	ND
Methyl tert-butyl Ether	0.93	100	500	0.93	ND	ND	ND	ND	ND
Methylcyclohexane	-	-	-	-	ND	ND	ND	ND	ND
Methylene chloride	0.05	100	500		ND	ND	ND	ND	ND
Styrene	-	-	-	-	ND	ND	ND	ND	ND
Tetrachloroethene	1.3	150	150		ND	ND	ND	ND	ND
Toluene	0.7	100	500	0.7	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	-	-	-	-	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	-	-	-	-	ND	ND	ND	ND	ND
Trichloroethene	0.47	21	200		ND	ND	ND	ND	ND
Trichlorofluoromethane	-	-	-	-	ND	ND	ND	ND	ND
Vinyl Chloride	0.2	0.9	13		ND	ND	ND	ND	ND
N-Butylbenzene	12	100	500	12	ND	ND	ND	ND	ND
N-Propylbenzene	3.9	100	500	3.9	ND	ND	ND	ND	ND
Naphthalene	12	100	500	12	ND	ND	ND	ND	ND
o-Xylene	-	-	-	-	ND	ND	ND	ND	ND
p-Isopropyltoluene	-	-	-	10	ND	ND	ND	ND	ND
sec-Butylbenzene	11	100	500	11	ND	ND	ND	ND	ND
Xylenes (mixed)	0.26	100	500	0.26	ND	ND	ND	ND	ND
Trichloroethene	0.47	21	200		ND	ND	ND	ND	ND

1 - All values presented in parts per million (ppm).

2 - 6 NYCRR Part 375-6.8 - Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives levels in bold type exceed this standard.

3 - 6 NYCRR Part 375-6.8 - Table 375-6.8(b): Restricted Residential Soil Cleanup Objectives levels shaded exceed this standard.

J - value is estimated

NA - Not analyzed

ND- Not detected above laboratory detection limits.

4 - Samples collected by Bergmann on May 7, 2021 and anaylised by Paradigm Environmental Services, Inc. of Rochester, New York.

Value Exceeds Unrestricted SCOs
Value Exceeds Restricted Residential Use SCOs
Value Exceeds Commercial Use SCOs

Table 1 (part 2)
VOC Analytical Summary
Phase II Environmental Site Assessment
2590 Culver Road
Lot 1 Wambach Farm Property
Providence Housing
Town of Irondequoit, New York

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Analyzed Parameters[1]	Unrestricted Use[2]	Restricted Residential Use[3]	Commercial Use[3]	NYSDEC CP-51 Standards	TP21-25 (3.0-3.5ft.)	TP21-28 (5.0-5.5ft.)	TP21-40 (3.5-4.0ft.)	TP21-31 (11.0-11.5ft.)	TP21-35 (3.0-3.5ft.)
EPA 8260 - TCL Volatile Organics									
1,1,1-Trichloroethane	0.68	100	500		ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	-	-	-	-	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	-	-	-	-	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.27	26	240		ND	ND	ND	ND	ND
1.1-Dichloroethene	0.33	100	500		ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	-	-	-	-	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3.6	52	190		ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	52	190	3.6	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	-	-	-	-	ND	ND	ND	ND	ND
1,2-Dibromomethane	-	-	-	-	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500	500	-	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	3.1	30	-	ND	ND	ND	ND	ND
1,2-Dichloropropane	-	-	-	-	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1.8	100	500	-	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130	130	-	ND	ND	ND	ND	ND
1,4-Dioxane	0.1	13	130		ND	ND	ND	ND	ND
2-Butanone	0.12	100	500		ND	ND	ND	0.114	0.114
2-Hexanone	-	-	-	-	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	-	-	-	-	ND	ND	ND	ND	ND
Acetone	0.05	100	500		ND	0.092	ND	ND	0.327
Benzene	0.06	2.40	44	0.06	ND	ND	ND	ND	ND
Bromochloromethane	-	-	-	-	ND	ND	ND	ND	ND
Bromodichloromethane	-	-	-	-	ND	ND	ND	ND	ND
Bromoform	-	-	-	-	ND	ND	ND	ND	ND
Bromomethane	-	-	-	-	ND	ND	ND	ND	ND
Carbon Disulfide	-	-	-	-	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.76	2.4	22		ND	ND	ND	ND	ND
Chlorobenzene	-	-	-	-	ND	ND	ND	ND	ND
Chloroethane	-	-	-	-	ND	ND	ND	ND	ND
Chloroform	0.37	49	350		ND	ND	ND	ND	ND
Chloromethane	-	-	-	-	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.25	100	500		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	-	-	-	-	ND	ND	ND	ND	ND
Cyclohexane	-	-	-	-	ND	ND	ND	ND	ND
Dibromochloromethane	-	-	-	-	ND	ND	ND	ND	ND
Dichlorodifluoromethane	-	-	-	-	ND	ND	ND	ND	ND
Ethylbenzene	1	41	390	1	ND	ND	ND	ND	ND
Freon 113	-	-	-	-	ND	ND	ND	ND	ND
Isopropylbenzene	-	-	-	2.3	ND	ND	ND	ND	ND
m,p-Xylene	-	-	-	-	ND	ND	ND	ND	ND
Methyl acetate	-	-	-	-	ND	ND	ND	ND	ND
Methyl tert-butyl Ether	0.93	100	500	0.93	ND	ND	ND	ND	ND
Methylcyclohexane	-	-	-	-	ND	ND	ND	ND	ND
Methylene chloride	0.05	100	500		ND	ND	ND	ND	ND
Styrene	-	-	-	-	ND	ND	ND	ND	ND
Tetrachloroethene	1.3	150	150		ND	ND	ND	ND	ND
Toluene	0.7	100	500	0.7	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	-	-	-	-	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	-	-	-	-	ND	ND	ND	ND	ND
Trichloroethene	0.47	21	200		ND	ND	ND	ND	ND
Trichlorofluoromethane	-	-	-	-	ND	ND	ND	ND	ND
Vinyl Chloride	0.2	0.9	13		ND	ND	ND	ND	ND
N-Butylbenzene	12	100	500	12	ND	ND	ND	ND	ND
N-Propylbenzene	3.9	100	500	3.9	ND	ND	ND	ND	ND
Naphthalene	12	100	500	12	ND	ND	ND	ND	ND
o-Xylene	-	-	-	-	ND	ND	ND	ND	ND
p-Isopropyltoluene	-	-	-	10	ND	ND	ND	ND	ND
sec-Butylbenzene	11	100	500	11	ND	ND	ND	ND	ND
Xylenes (mixed)	0.26	100	500	0.26	ND	ND	ND	ND	ND
Trichloroethene	0.47	21	200		ND	ND	ND	ND	ND

1 - All values presented in parts per million (ppm).

2 - 6 NYCRR Part 375-6.8 - Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives levels in bold type exceed this standard.

3 - 6 NYCRR Part 375-6.8 - Table 375-6.8(b): Restricted Residential Soil Cleanup Objectives levels shaded exceed this standard.

J - value is estimated

NA - Not analyzed

ND- Not detected above laboratory detection limits.

4 - Samples collected by Bergmann on May 7, 2021 and anaylised by Paradigm Environmental Services, Inc. of Rochester, New York.

Value Exceeds Unrestricted SCOs
Value Exceeds Restricted Residential Use SCOs
Value Exceeds Commercial Use SCOs

Table 2
Soils Analytical Summary- SVOCs
Supplemental Phase II Environmental Site Assessment
2590 Culver Road
Lot 1 Wambach Farm Property
Providence Housing
Town of Inrondequoit

BERGMANN

Analyzed Parameters	Unrestricted Use[2]	Restricted Residential Use[3]	Commercial Use[3]	TP21-24 (18-18.5ft.)	TP21-25 (2.5-3.0ft.)	TP21-28 (5.0-5.5ft.)	TP21-31 (11..0-11.5 ft.)	TP21-34 (12.5-13.0 ft.)	TP21-35 (3.0-3.5 ft.)	TP21-36 (2.5-3.0 ft.)	TP21-37 (2.5-3.0ft.)	TP21-38 (4.0-4.5ft.)	TP21-40 (3.5-4.0 ft.)
EPA 8270 - TCL Semi-Volatile Organics													
1,1-Biphenyl	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetrachlorobenzene	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6-Tetrachlorophenol	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophthalene	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnapthalene	-	-	-	ND	ND	ND	ND	ND	ND	0.852	ND	ND	ND
2-Methylphenol	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	20	100	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	100	100	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	-	-	-	ND	ND	ND	6.47	ND	ND	ND	ND	ND	ND
Anthracene	100	100	500	ND	ND	ND	ND	ND	ND	1.11	ND	ND	ND
Atrazine	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	0.391	ND
Benzaldehyde	-	-	-	ND	ND	ND	24.4	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	1	1	5.6	0.509	0.676	0.523	ND	0.67	ND	1.94	ND	0.701	ND
Benzo(a)pyrene	1	1	1	0.513	0.75	0.494	ND	0.67	ND	1.56	ND	0.724	ND
Benzo(b)fluoranthene	1	1	5.6	0.424	0.693	0.32	ND	0.619	ND	1.2	ND	0.612	ND
Benzo(g,h,i)perylene	100	100	500	0.369	0.521	0.305	ND	0.439	ND	0.785	ND	0.443	ND
Benzo(k)fluoranthene	0.8	3.9	56	0.385	0.465	0.36	ND	0.419	ND	1.2	ND	0.435	ND
Bis(2-chloroethoxy) methane	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl) ether	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl) ether	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carprolactam	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbozole	-	-	-	ND	ND	ND	ND	ND	ND	0.399	ND	ND	ND
Chrysene	1	3.9	56	0.531	0.62	0.472	ND	0.659	ND	1.68	ND	ND	ND
Dibenzo(a,h)anthracene	0.33	0.33	0.56	ND	ND	ND	ND	ND	ND	0.29	ND	ND	ND
Dibenzofuran	-	-	-	ND	ND	ND	ND	ND	ND	1.21	ND	ND	ND
Diethyl phthalate	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	100	500	2.16	1.22	1.24	ND	1.41	ND	4.48	ND	1.51	ND
Fluorene	30	100	500	ND	ND	ND	ND	ND	ND	1.33	ND	0.36	ND
Hexachlorobenzene	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.5	0.5	6	1.385	0.595	0.34	ND	0.485	ND	0.939	ND	0.437	ND
Isophorone	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	12	100	500	ND	ND	ND	ND	ND	ND	2.18	ND	ND	ND
Nitrobenzene	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	0.8	6.7	6.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100	100	500	1.523	0.495	0.882	ND	0.675	ND	5.04	ND	1.11	ND
Phenol	0.33	100	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	100	100	500	1.99	1.07	1.09	ND	1.19	ND	3.47	ND	1.27	ND
Pyridine	100	100	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

1 - All values presented in parts per million (ppm).
2 - 6 NYCRR Part 375-6.8 - Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives level Value Exceeds Unrestricted SCOs
3 - 6 NYCRR Part 375-6.8 - Table 375-6.8(b): Restricted Residential Soil Cleanup Objectives Value Exceeds Restricted Residential Use SCOs
D - Sample or laboratory control sample results above Relative Percent Difference Limit. Value Exceeds Commercial Use SCOs
NA - Not analyzed
ND- Not detected above laboratory detection limits.
4 - Samples collected by Bergmann on May 7, 2021 and anaylised by Paradigm Environmental Services, Inc. of Rochester, New York.

Value Exceeds Unrestricted SCOs
Value Exceeds Restricted Residential Use SCOs
Value Exceeds Commercial Use SCOs

Table 3
RCRA 8 Metals Analytical Summary
Supplemental Phase II Environmental Site Assessment
2590 Culver Road
Providence Housing
Town of Irondequoit, New York

BERGMANN

Analyzed Parameters[1]	Unrestricted Use[2]	Restricted Residential Use[3]	Commercial Use[3]	TP21-24 (18-18.5ft.)	TP21-34 (12.5-13.0 ft.)	TP21-36 (2.5-3.0 ft.)	TP21-37 (2.5-3.0ft.)	TP21-38 (4.0-4.5ft.)
Arsenic	13	16	16	3.11	2.86	4.3	2.62	4.34
Barium	350	400	400	47.9	41.6	74.6	35.1	44.5
Cadmium	2.5	4.3	9.3	0.713	0.73	0.874	0.66	0.754
Chromium	30	180	1500	9.02	12.5	9.71	16.3	9.93
Lead	63	400	1000	356	69.6	82.7	6.77	80.9
Mercury	0.18	0.81	2.8	0.163	0.0963	0.089	0.023	0.11
Selenium	3.9	180	1500	ND	1.24	1.23	2.09	1.21
Silver	2	180	1500	ND	ND	ND	ND	ND

1 - All values presented in parts per million (ppm).
2 - 6 NYCRR Part 375-6.8 - Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives levels in bold type exceed this standard.
3 - 6 NYCRR Part 375-6.8 - Table 375-6.8(b): Restricted Residential Soil Cleanup Objectives levels bold and shaded exceed this standard.
J - value is estimated
NA - Not analyzed
ND- Not detected above laboratory detection limits.
4 - Samples collected by Bergmann on May 7, 2021 and anaylised by Paradigm Environmental Services, Inc. of Rochester, New York.

Value Exceeds Unrestricted SCOs
Value Exceeds Restricted Residential Use SCOs
Value Exceeds Commercial Use SCOs

Table 3 (part 2)
RCRA 8 Metals Analytical Summary
Phase II Environmental Site Assessment
2590 Culver Road
Lot 1 Wambach Farm Property
Town of Irondequoit, New York

BERGMANN

Analyzed Parameters[1]	Unrestricted Use[2]	Restricted Residential Use[3]	Commercial Use[3]	TP21-25 (3.0-3.5ft.)	TP21-28 (5.0-5.5ft.)	TP21-31 (11.0-11.5ft.)	TP21-35 (3.0-3.5ft.)	TP21-40 (3.5-4.0ft.)
Arsenic	13	16	16	4.46	3.47	50.9	3.01	9.53
Barium	350	400	400	45.2	36	42.3	47.7	39.4
Cadmium	2.5	4.3	9.3	0.764	0.551	ND	0.665	0.65
Chromium	30	180	1500	9.1	8.47	5	8.18	14.3
Lead	63	400	1000	30	79.9	91.4	41.3	23.7
Mercury	0.18	0.81	2.8	0.0476	0.0798	0.0769	0.101	0.0203
Selenium	3.9	180	1500	ND	ND	ND	ND	2.24
Silver	2	180	1500	ND	ND	ND	0.897	ND

1 - All values presented in parts per million (ppm).
2 - 6 NYCRR Part 375-6.8 - Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives levels in bold type exceed this standard.
3 - 6 NYCRR Part 375-6.8 - Table 375-6.8(b): Restricted Residential Soil Cleanup Objectives levels bold and shaded exceed this standard.
J - value is estimated
NA - Not analyzed
ND- Not detected above laboratory detection limits.
4 - Samples collected by Bergmann on May 7, 2021 and anaylised by Paradigm Environmental Services, Inc. of Rochester, New York.

Value Exceeds Unrestricted SCOs
Value Exceeds Restricted Residential Use SCOs
Value Exceeds Commercial Use SCOs

Table 4 - Pesticides Analytical Summary
Supplemental Phase II Environmental Site Assessment
2590 Culver Road
Lot 1 of Wambach Farm Property
Providence Housing
Town of Irondequoit

BERGMANN

Analyzed Parameters	Unrestricted Use[3]	Restricted Residential[4]	Commercial Use[4]	TP21-24 (18-18.5ft.)	TP21-25 (2.5-3.0ft.)	TP21-28 (5,0-5.5ft.)	TP21-31 (11..0-11.5 ft.)	TP21-34 (12.5-13.0 ft.)	TP21-35 (3.0-3.5 ft.)	TP21-36 (2.5-3.0 ft.)	TP21-37 (2.5-3.0ft.)	TP21-38 (4.0-4.5ft.)	TP21-40 (3.5-4.0 ft.)
Table 3 - Pesticides Analytical Summary - Soils													
Aldrin	0.005	0.097	0.680	ND	ND	ND	0.0948	ND	ND	ND	ND	0.00645	ND
Alpha-BHC	0.02	0.480	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.036	0.360	3.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-TP Acid (Silvex)	3.8	100	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.0033	13	92	0.00734	ND	0.0151	ND	ND	ND	0.00909	ND	0.0149	ND
4,4'-DDE	0.0033	8.9	62	0.0052	ND	ND	ND	ND	0.0056	0.00628	ND	0.00542	ND
4,4'-DDT	0.0033	7.9	47	ND	ND	0.00336	ND	ND	0.0051	ND	ND	ND	ND
cis-Chlordane	0.094	4.2	24	0.00402	ND	0.00472	ND	ND	0.0048	0.0277	ND	0.00625	ND
trans-Chlordane	0.094	4.2	24	0.00485	ND	0.00641	ND	ND	ND	0.0536	ND	0.00484	ND
Dieldrin	0.005	0.200	1.4	0.00331	ND	0.0104	0.649	0.00366	0.0323	0.00832	ND	0.0282	0.0243
Endosulfan I	2.4	24	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	2.4	24	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	2.4	24	200	ND	0.00398	ND	ND	0.00404	0.00306	0.00333	ND	ND	ND
Endrin	0.014	11	89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin Aldelhyde	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone	-	-	-	ND	ND	ND	0.243	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	1.3	9.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	-	-	-	ND	ND	ND	ND	ND	0.00314	0.0124	ND	ND	ND
Methoxychlor[5]	NC	100	NC	0.00489	0.00355	0.00454	ND	ND	ND	0.00669	ND	0.00684	ND
Toxaphene	-	-	-	ND	ND	ND	ND	ND	0.00502	ND	ND	ND	ND

1 - All values presented in parts per million (ppm).
2 - 6 NYCRR Part 375-6.8 - Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives levels in bold type exceed this standard.
3 - 6 NYCRR Part 375-6.8 - Table 375-6.8(b): Restricted Residential Soil Cleanup Objectives levels shaded exceed this standard.
J - value is estimated
NA - Not analyzed
ND- Not detected above laboratory detection limits.
4 - Samples collected by Bergmann on May 7, 2021 and anaylised by Paradigm Environmental Services, Inc. of Rochester, New York.

Value Exceeds Unrestricted SCOs
Value Exceeds Restricted Residential Use SCOs
Value Exceeds Commercial Use SCOs

FIGURES

280 E. Broad Street
Rochester, NY 14604

TEL: 585.232.5135
www.bergmannpc.com

Providence Housing
2590 Culver Road
Phase I ESA

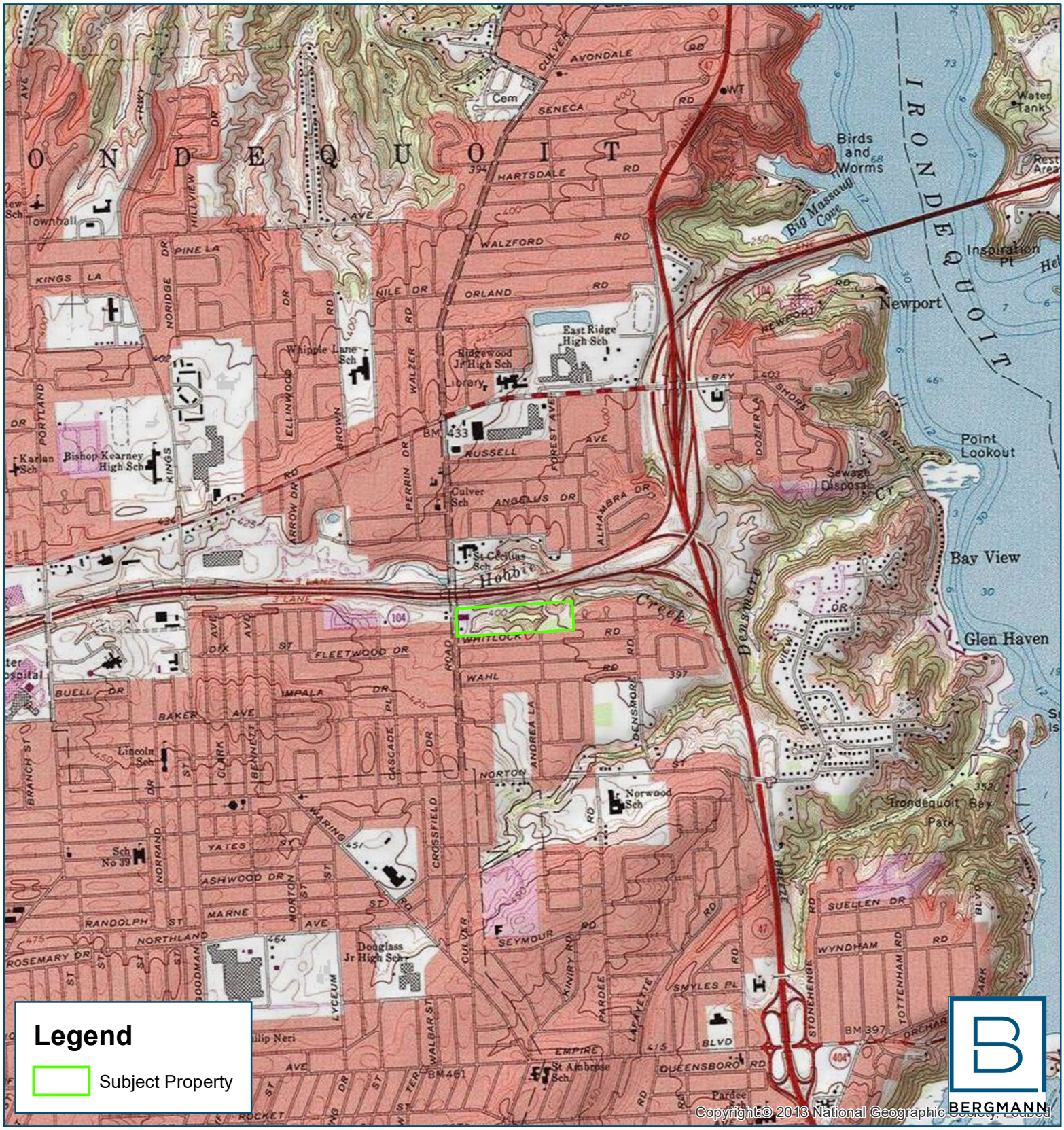
SITE LOCATION MAP

Fig. 1

2,000 Feet

N

Town of Irondequoit, Monroe County, New York



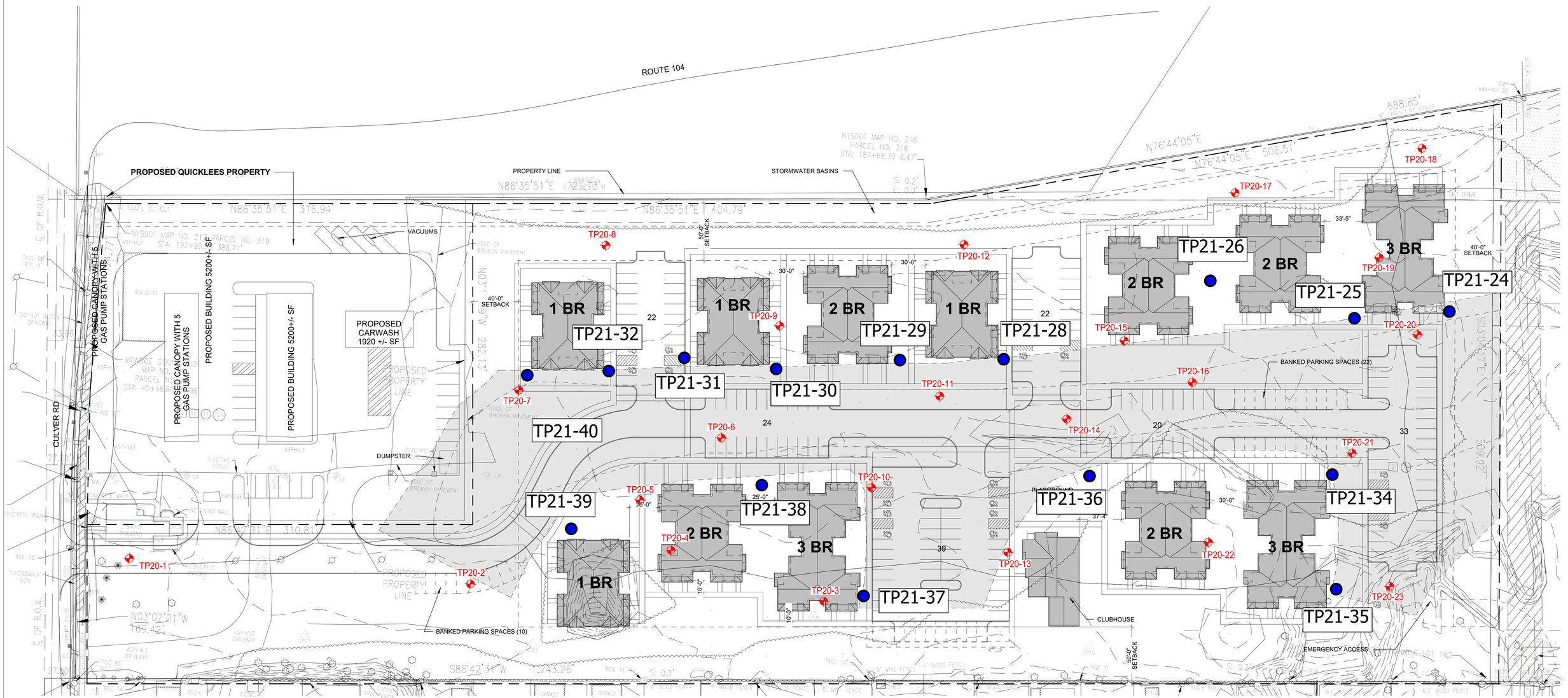


FIGURE 2 - TEST PIT LOCATION PLAN

APPENDIX 1

280 E. Broad Street
Rochester, NY 14604

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Environmental Test Pit Log

TP21-24

Project:	Supplemental Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Ironde
Client:	Providene Housing
Contractor	Rusty Miller Excavating

File No:	14695
Sheet No:	1 of 1
Location:	See Plan
Elevation:	
Datum:	
Start:	5/7/2021
Finish	5/7/2021
Operator:	R. Miller
Geologist	S. DeMeo

Item	Casing	Drive Sampler	Core Barrel	Excavation Equipment and Procedures
Type:	NA	NA	NA	Excavator: CAT 250
Inside Diameter (IN):	NA	NA	NA	Reach: 21.5 feet
Hemmer Weight (LB):	NA	NA	NA	Bucket: 3.5 cubic yards
Hammer Fall (IN):	NA	NA	NA	Other:
Other:	NA	NA	NA	

Depth (FT)	Sample Depth (FT)	Sampler Blows Per 6 Inches	Head Space (PPM)	Sample Number and Recovery	Strata Change (FT)	Visual Classification and Remarks
0			ND			Brown coarse to fine SAND, some gravel, trace silt, damp.
						- FILL -
					2.0	Gray road construction debris, brick,wood, ash, cinders, rock boulders, and pavement.
2						- FILL -
			ND			
4						
6						
						Same. - FILL-
8			ND			
10						
			ND			
						Same, with concrete slabs and rock.
12						
14			ND			Same, with tree stumps.
16						
18						
					19.5	- FILL -
20						Red-brown SILT, some fine sand.
						- GLACIAL TILL -
						Bottom of test pit at 21.5 ft.
						Backfilled test pit to ground surface.

Groundwater Data

			Depth		
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water
5/7/2021	NA	NA	NA	21.5 ft.	yes at 11.0 ft.

Summary

Overburden (Lin FT)	21.5
Rock Cored (Lin FT)	NA

Environmental Test Pit Log

TP21-25

Project:	Supplemental Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Ironde
Client:	Providene Housing
Contractor	Rusty Miller Excavating

File No:	14695
Sheet No:	1 of 1
Location:	See Plan
Elevation:	
Datum:	
Start:	5/7/2021
Finish	5/7/2021
Operator:	R. Miller
Geologist	S. DeMeo

Item	Casing	Drive Sampler	Core Barrel	Excavation Equipment and Procedures
Type:	NA	NA	NA	Excavator: CAT 250
Inside Diameter (IN):	NA	NA	NA	Reach: 21.5 feet
Hemmer Weight (LB):	NA	NA	NA	Bucket: 3.5 cubic yards
Hammer Fall (IN):	NA	NA	NA	Other:
Other:	NA	NA	NA	

Depth (FT)	Sample Depth (FT)	Sampler Blows Per 6 Inches	Head Space (PPM)	Sample Number and Recovery	Strata Change (FT)	Visual Classification and Remarks
0			ND			Brown coarse to fine SAND, some gravel, trace silt, damp.
						- FILL -
					2.0	
2						Brown to gray GRAVEL, some coarse to fine sand, trace silt with wood fragments, damp.
						- FILL -
			ND			
4					4.0	
						- FILL -
6						Light brown medium to fine SAND, little silt, damp.
						- LACUSTRINE -
8						Bottom of test pit at 7.0 ft.
						Backfilled test pit to ground surface.
10						
12						
14						
16						
18						
20						

Groundwater Data

			Depth		
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water
5/7/2021	NA	NA	NA	7.0 ft.	No

Summary

Overburden (Lin FT)	7.0
Rock Cored (Lin FT)	NA

Environmental Test Pit Log

TP21-26

Project:	Supplemental Phase II Environmental Site Assessment - Lot 1 Wambach Farm Property, Irondequoit, NY
Client:	Providene Housing
Contractor	Rusty Miller Excavating

File No:	14695
Sheet No:	1 of 1
Location:	See Plan
Elevation:	
Datum:	
Start:	5/7/2021
Finish	5/7/2021
Operator:	R. Miller
Geologist	S. DeMeo

Item	Casing	Drive Sampler	Core Barrel	Excavation Equipment and Procedures
Type:	NA	NA	NA	Excavator: CAT 250
Inside Diameter (IN):	NA	NA	NA	Reach: 21.5 feet
Hemmer Weight (LB):	NA	NA	NA	Bucket: 3.5 cubic yards
Hammer Fall (IN):	NA	NA	NA	Other:
Other:	NA	NA	NA	

Depth (FT)	Sample Depth (FT)	Sampler Blows Per 6 Inches	Head Space (PPM)	Sample Number and Recovery	Strata Change (FT)	Visual Classification and Remarks
0			ND			Brown coarse to fine SAND, some gravel, trace silt, damp.
						- FILL -
2					2.0	Gray road construction debris, brick,wood, ash, cinders, rock boulders, and pavement.
						- FILL -
4			ND			
6						
8			ND			Same. - FILL-
10						Refusal of excavator on concrete slab at 10 ft. and bottom of Test Pit.
12						Bottom of Test Pit at 10.0 ft.
14						
16						
18						
20						

Groundwater Data

			Depth		
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water
5/7/2021	NA	NA	NA	10.0	none

Summary

Overburden (Lin FT)	10.0
Rock Cored (Lin FT)	NA

Environmental Test Pit Log

TP 21-28

Project:	Supplimental Phase II Environmental Site Assessment - Lot 1 Wambach Farm Property, Irondequoit, New Yo
Client:	Providene Housing
Contractor	Rusty Miller Excavating

File No:	14695
Sheet No:	1 of 1
Location:	See Plan
Elevation:	
Datum:	
Start:	5/7/2021
Finish	5/7/2021
Operator:	R. Miller
Geologist	S. DeMeo

Item	Casing	Drive Sampler	Core Barrel	Excavation Equipment and Procedures
Type:	NA	NA	NA	Excavator: CAT 250
Inside Diameter (IN):	NA	NA	NA	Reach: 16 feet
Hemmer Weight (LB):	NA	NA	NA	Bucket: 3.5 cubic yards
Hammer Fall (IN):	NA	NA	NA	Other:
Other:	NA	NA	NA	

Depth (FT)	Sample Depth (FT)	Sampler Blows Per 6 Inches	Head Space (PPM)	Sample Number and Recovery	Strata Change (FT)	Visual Classification and Remarks
0			ND			Light brown GRAVEL, some coarse to fine sand, with brick and pavement fragments, damp.
						- FILL -
2						Coarse to fine SAND, with wood and pavement fragments with rock fragments, damp.
						- FILL -
			0.2			
4					4.0	Same. - FILL -
			0.3			
6						Brick and shot rock, wood plastic and metal.
						- FILL -
8			ND			
10			ND			Same.
					11	- FILL -
12						Light gray SILT, little fine sand.
			ND			
14						- LACUSTRINE -
16						Bottom of test pit at 14.0 ft.
						Backfilled test pit to ground surface
18						
20						

Groundwater Data

			Depth		
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water
5/7/2021	NA	NA	NA	14.0 ft.	No

Summary

Overburden (Lin FT)	14.0
Rock Cored (Lin FT)	NA

Environmental Test Pit Log

TP21-29

Project:	Supplemental Phase II Environmental Site Assessment - Lot 1 Wambach Farm Property, Irondequoit, New
Client:	Providene Housing
Contractor	Rusty Miller Excavating

File No:	14695
Sheet No:	1 of 1
Location:	See Plan
Elevation:	
Datum:	
Start:	5/7/2021
Finish	5/7/2021
Operator:	R. Miller
Geologist	S. DeMeo

Item	Casing	Drive Sampler	Core Barrel	Excavation Equipment and Procedures
Type:	NA	NA	NA	Excavator: CAT 250
Inside Diameter (IN):	NA	NA	NA	Reach: 16 feet
Hemmer Weight (LB):	NA	NA	NA	Bucket: 3.5 cubic yards
Hammer Fall (IN):	NA	NA	NA	Other:
Other:	NA	NA	NA	

Depth (FT)	Sample Depth (FT)	Sampler Blows Per 6 Inches	Head Space (PPM)	Sample Number and Recovery	Strata Change (FT)	Visual Classification and Remarks
0			ND			Light brown SILT, little fine sand, damp.
						- FILL -
2					2.5	Dark gray road rock and wood.
						- FILL -
4			ND			
6						
8						Same. - FILL-
			ND			
10						
			ND			
12						Same.
14			ND		14	
						Gray SILT, trace silt, moist. - LACUSTRINE -
16						
						Bottom of Test Pit at 16.0 ft.
18						
						Backfilled Test Pit to ground surface.
20						

Groundwater Data						Summary	
			Depth			Overburden (Lin FT)	16.0
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water	Rock Cored (Lin FT)	NA
5/7/2021	NA	NA	NA	16 ft.	not observed		

Environmental Test Pit Log

TP 21-30

Project:	Supplimental Phase II Environmental Site Assessment - Lot 1 Wambach Farm Property, Irondequoit, New Yo
Client:	Providene Housing
Contractor	Rusty Miller Excavating

File No:	14695
Sheet No:	1 of 1
Location:	See Plan
Elevation:	
Datum:	
Start:	5/7/2021
Finish	5/7/2021
Operator:	R. Miller
Geologist	S. DeMeo

Item	Casing	Drive Sampler	Core Barrel	Excavation Equipment and Procedures
Type:	NA	NA	NA	Excavator: CAT 250
Inside Diameter (IN):	NA	NA	NA	Reach: 16 feet
Hemmer Weight (LB):	NA	NA	NA	Bucket: 3.5 cubic yards
Hammer Fall (IN):	NA	NA	NA	Other:
Other:	NA	NA	NA	

Depth (FT)	Sample Depth (FT)	Sampler Blows Per 6 Inches	Head Space (PPM)	Sample Number and Recovery	Strata Change (FT)	Visual Classification and Remarks
0			ND			Light brown GRAVEL, some coarse to fine sand, with pavment fragments, damp.
					2.0	- FILL -
2						Gray GRAVEL, with brick, metal and pavment fragments, damp.
			0.1			Light brown medium to fine sand, little silt, damp.
4						- FILL -
			0.1			
6						
						Same.
8						- FILL -
10						Bottom of Test Pit at 9.0 ft.
						Backfilled Test Pit to ground surface.
12						
14						
16						
18						
20						

Groundwater Data

Depth					
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water
5/7/2021	NA	NA	NA	9.0 ft.	Yes

Summary

Overburden (Lin FT)	9.0
Rock Cored (Lin FT)	NA

Environmental Test Pit Log

TP21-31

Project:	Supplemental Phase II Environmental Site Assessment - Lot 1 Wambach Farm Property, Irondequoit, New
Client:	Providene Housing
Contractor	Rusty Miller Excavating

File No:	14695
Sheet No:	1 of 1
Location:	See Plan
Elevation:	
Datum:	
Start:	5/7/2021
Finish	5/7/2021
Operator:	R. Miller
Geologist	S. DeMeo

Item	Casing	Drive Sampler	Core Barrel	Excavation Equipment and Procedures
Type:	NA	NA	NA	Excavator: CAT 250
Inside Diameter (IN):	NA	NA	NA	Reach: 16 feet
Hemmer Weight (LB):	NA	NA	NA	Bucket: 3.5 cubic yards
Hammer Fall (IN):	NA	NA	NA	Other:
Other:	NA	NA	NA	

Depth (FT)	Sample Depth (FT)	Sampler Blows Per 6 Inches	Head Space (PPM)	Sample Number and Recovery	Strata Change (FT)	Visual Classification and Remarks
0			ND			Light brown GRAVEL, with bricks, wood, metal and concrete, damp.
						- FILL -
2					2.0	Dark gray metal wire, concrete rubble, rock boulders, and wood, damp.
						- FILL -
4			ND			
6						
8			ND			Same. - FILL-
10			ND			
12					12	Same. - F
						Gray SILT, trace fine sand, wet - LACUSTRINE -
14						
16						Bottom of Test Pit at 14.0 ft.
18						Backfilled Test Pit to ground surface
20						

Groundwater Data

			Depth		
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water
5/7/2021	NA	NA	NA	14 ft.	Yes at 9 ft.

Summary

Overburden (Lin FT)	14.0
Rock Cored (Lin FT)	NA

Environmental Test Pit Log

TP21-32

Project:	Supplemental Phase II Environmental Site Assessment - Lot 1 Wambach Farm Property, Irondequoit, New
Client:	Providene Housing
Contractor	Rusty Miller Excavating

File No:	14695
Sheet No:	1 of 1
Location:	See Plan
Elevation:	
Datum:	
Start:	5/7/2021
Finish	5/7/2021
Operator:	R. Miller
Geologist	S. DeMeo

Item	Casing	Drive Sampler	Core Barrel	Excavation Equipment and Procedures
Type:	NA	NA	NA	Excavator: CAT 250
Inside Diameter (IN):	NA	NA	NA	Reach: 16 feet
Hemmer Weight (LB):	NA	NA	NA	Bucket: 3.5 cubic yards
Hammer Fall (IN):	NA	NA	NA	Other:
Other:	NA	NA	NA	

Depth (FT)	Sample Depth (FT)	Sampler Blows Per 6 Inches	Head Space (PPM)	Sample Number and Recovery	Strata Change (FT)	Visual Classification and Remarks
0			ND			Light brown GRAVEL, with bricks, wood, metal and concrete, damp.
						- FILL -
2					2.0	Dark gray metal wire, concrete rubble, rock boulders, and wood, damp.
						- FILL -
4			ND			
6						
8			ND			Same. - FILL-
10			ND			
12					12	Same. - F
						Gray SILT, trace fine sand, wet - LACUSTRINE -
14						
16						Bottom of Test Pit at 14.0 ft.
18						Backfilled Test Pit to ground surface
20						

Groundwater Data

			Depth		
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water
5/7/2021	NA	NA	NA	14 ft.	Yes at 9 ft.

Summary

Overburden (Lin FT)	14.0
Rock Cored (Lin FT)	NA

Environmental Test Pit Log

TP21-34

Project:	Supplemental Phase II Environmental Site Assessment - Lot 1 Wambach Farm Property, Irondequoit, New	File No:	14695
Client:	Providene Housing	Sheet No:	1 of 1
Contractor	Rusty Miller Excavating	Location:	See Plan

Item	Casing	Drive Sampler	Core Barrel	Excavation Equipment and Procedures		Elevation:	
Type:	NA	NA	NA	Excavator:	CAT 250	Datum:	
Inside Diameter (IN):	NA	NA	NA	Reach:	16 feet	Start:	5/7/2021
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Finish	5/7/2021
Hammer Fall (IN):	NA	NA	NA	Other:			
Other:	NA	NA	NA			Operator:	R. Miller
						Geologist	S. DeMeo

Depth (FT)	Sample Depth (FT)	Sampler Blows Per 6 Inches	Head Space (PPM)	Sample Number and Recovery	Strata Change (FT)	Visual Classification and Remarks
0			ND			Light brown GRAVEL, some coarse to fine sand, trace silt, with wood and concrete, damp.
						- FILL -
2						Brown GRAVEL, some coarse to fine sand, with brick, wood, rock boulders, and metal.
						- FILL -
			ND			
4						
6						
8						Same. - FILL-
			ND			
10					10.0	
			ND			Gray to dark gray concrete rubble.
12						Same. - FIL
14			ND			Wood, concrete, metal and bricks. - FILL -
16						
			ND			
18						Same. - FILL -
20						Bottom of Test Pit at 20.0 ft.
						Backfilled test pit to ground surface.

Groundwater Data						Summary	
			Depth			Overburden (Lin FT)	20.0
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water	Rock Cored (Lin FT)	NA
5/7/2021	NA	NA	NA	20 ft.	Yes at 18 ft.		

Environmental Test Pit Log

TP21-35

Project:	Supplemental Phase II Environmental Site Assessment - Lot 1 Wambach Farm Property, Irondequoit, New
Client:	Providene Housing
Contractor	Rusty Miller Excavating

File No:	14695
Sheet No:	1 of 1
Location:	See Plan
Elevation:	
Datum:	
Start:	5/7/2021
Finish	5/7/2021
Operator:	R. Miller
Geologist	S. DeMeo

Item	Casing	Drive Sampler	Core Barrel	Excavation Equipment and Procedures
Type:	NA	NA	NA	Excavator: CAT 250
Inside Diameter (IN):	NA	NA	NA	Reach: 16 feet
Hemmer Weight (LB):	NA	NA	NA	Bucket: 3.5 cubic yards
Hammer Fall (IN):	NA	NA	NA	Other:
Other:	NA	NA	NA	

Depth (FT)	Sample Depth (FT)	Sampler Blows Per 6 Inches	Head Space (PPM)	Sample Number and Recovery	Strata Change (FT)	Visual Classification and Remarks
0			ND			Light brown GRAVEL, some coarse to fine sand, trace silt, with wood and concrete, damp.
					2.0	- FILL -
2						Brown GRAVEL, some coarse to fine sand, with brick, wood, rock boulders, and metal.
						- FILL -
4			ND			
6						
8						Same. - FILL-
			ND			
10						
			ND			
12						Same. - FIL
14			ND			Construction debris, wood, concrete, metal and bricks. - FILL -
					16	
16			ND			Red-brown GRAVEL, some silt, moist to wet. - GLACIAL TILL -
18						Bottom to Test Pit at 17.0 ft.
20						Backfilled test pit to ground surface.

Groundwater Data

			Depth		
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water
5/7/2021	NA	NA	NA	17 ft.	Yes at 16 ft.

Summary

Overburden (Lin FT)	17.0
Rock Cored (Lin FT)	NA

Environmental Test Pit Log

TP 21-36

Project:	Supplimental Phase II Environmental Site Assessment - Lot 1 Wambach Farm Property, Irondequoit, New Yo	File No:	14695
Client:	Providene Housing	Sheet No:	1 of 1
Contractor	Rusty Miller Excavating	Location:	See Plan

Item	Casing	Drive Sampler	Core Barrel	Excavation Equipment and Procedures		Elevation:	
Type:	NA	NA	NA	Excavator:	CAT 250	Datum:	
Inside Diameter (IN):	NA	NA	NA	Reach:	16 feet	Start:	5/7/2021
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Finish	5/7/2021
Hammer Fall (IN):	NA	NA	NA	Other:			
Other:	NA	NA	NA			Operator:	R. Miller
						Geologist	S. DeMeo

Depth (FT)	Sample Depth (FT)	Sampler Blows Per 6 Inches	Head Space (PPM)	Sample Number and Recovery	Strata Change (FT)	Visual Classification and Remarks
0			ND		1.5	Red brown GRAVEL, some coarse to fine sand, trace silt, damp. - FILL -
2						Dark gray to black concrete and rock fragments, with cinders, ash, wood, steel wire, damp. Coarse to fine SAND, with wood and pavement fragments with rock fragments, damp. - FILL -
4			ND			Same. - FILL -
6			ND		4.9	Brown to gray SILT, damp. - LACUSTRINE -
8			ND			
10					8.7	Light brown medium to fine SAND, little sitl, moist. - LACUSTRINE -
12						Bottom of test pit at 10.6 ft.
14						Backfilled test pit to ground surface.
16						
18						
20						

Groundwater Data

			Depth		
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water
5/7/2021	NA	NA	NA	10.6 ft.	No

Summary

Overburden (Lin FT)	10.6
Rock Cored (Lin FT)	NA

Environmental Test Pit Log

TP 21-37

Project:	Supplimental Phase II Environmental Site Assessment - Lot 1 Wambach Farm Property, Irondequoit, New Yo
Client:	Providene Housing
Contractor	Rusty Miller Excavating

File No:	14695
Sheet No:	1 of 1
Location:	See Plan
Elevation:	
Datum:	
Start:	5/7/2021
Finish	5/7/2021
Operator:	R. Miller
Geologist	S. DeMeo

Item	Casing	Drive Sampler	Core Barrel	Excavation Equipment and Procedures
Type:	NA	NA	NA	Excavator: CAT 250
Inside Diameter (IN):	NA	NA	NA	Reach: 16 feet
Hemmer Weight (LB):	NA	NA	NA	Bucket: 3.5 cubic yards
Hammer Fall (IN):	NA	NA	NA	Other:
Other:	NA	NA	NA	

Depth (FT)	Sample Depth (FT)	Sampler Blows Per 6 Inches	Head Space (PPM)	Sample Number and Recovery	Strata Change (FT)	Visual Classification and Remarks
0			ND		1.5	Brown GRAVEL, some coarse to fine sand, trace silt, damp. - FILL -
2					2.9	Wood and pavement fragments with rock fragments, damp. - FILL -
4			ND			Gray SILT with root fibers, damp. - Buried TOPSOIL -
6			ND			Light brown coarse to fine SAND, trace silt, damp. - LACUSTRINE -
8			ND			- LACUSTRINE -
10						Bottom of test pit at 8.6 ft.
12						Backfilled test pit to ground surface.
14						
16						
18						
20						

Groundwater Data

Depth					
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water
5/7/2021	NA	NA	NA	8.6 ft.	No

Summary

Overburden (Lin FT)	8.6
Rock Cored (Lin FT)	NA

Environmental Test Pit Log

TP 21-37

Project:	Supplimental Phase II Environmental Site Assessment - Lot 1 Wambach Farm Property, Irondequoit, New Yo
Client:	Providene Housing
Contractor	Rusty Miller Excavating

File No:	14695
Sheet No:	1 of 1
Location:	See Plan
Elevation:	
Datum:	
Start:	5/7/2021
Finish	5/7/2021
Operator:	R. Miller
Geologist	S. DeMeo

Item	Casing	Drive Sampler	Core Barrel	Excavation Equipment and Procedures
Type:	NA	NA	NA	Excavator: CAT 250
Inside Diameter (IN):	NA	NA	NA	Reach: 16 feet
Hemmer Weight (LB):	NA	NA	NA	Bucket: 3.5 cubic yards
Hammer Fall (IN):	NA	NA	NA	Other:
Other:	NA	NA	NA	

Depth (FT)	Sample Depth (FT)	Sampler Blows Per 6 Inches	Head Space (PPM)	Sample Number and Recovery	Strata Change (FT)	Visual Classification and Remarks
0			ND		1.5	Brown GRAVEL, some coarse to fine sand, trace silt, damp. - FILL -
2					2.9	Wood and pavement fragments with rock fragments, damp. - FILL -
4			ND			Gray SILT with root fibers, damp. - Buried TOPSOIL -
6			ND			Light brown coarse to fine SAND, trace silt, damp. - LACUSTRINE -
8			ND			- LACUSTRINE -
10						Bottom of test pit at 8.6 ft.
12						Backfilled test pit to ground surface.
14						
16						
18						
20						

Groundwater Data

Depth					
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water
5/7/2021	NA	NA	NA	8.6 ft.	No

Summary

Overburden (Lin FT)	8.6
Rock Cored (Lin FT)	NA

Environmental Test Pit Log

TP21-38

Project:	Supplemental Phase II Environmental Site Assessment - Lot 1 Wambach Farm Property, Irondequoit, New	File No:	14695
Client:	Providene Housing	Sheet No:	1 of 1
Contractor	Rusty Miller Excavating	Location:	See Plan

Item	Casing	Drive Sampler	Core Barrel	Excavation Equipment and Procedures		Elevation:	
Type:	NA	NA	NA	Excavator:	CAT 250	Datum:	
Inside Diameter (IN):	NA	NA	NA	Reach:	16 feet	Start:	5/7/2021
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Finish	5/7/2021
Hammer Fall (IN):	NA	NA	NA	Other:			
Other:	NA	NA	NA			Operator:	R. Miller
						Geologist	S. DeMeo

Depth (FT)	Sample Depth (FT)	Sampler Blows Per 6 Inches	Head Space (PPM)	Sample Number and Recovery	Strata Change (FT)	Visual Classification and Remarks
0			ND			Light brown GRAVEL, some coarse to fine sand, trace silt, damp.
					2.0	- FILL -
2						Gray road construction debris, brick,wood, ash, cinders, rock boulders, and pavement.
						- FILL -
			ND			
4						
6						
8						Same. - FILL-
			ND			
10						
			ND			
12						Same. - FIL
14			ND			Construction debris, wood, concrete, metal and bricks.
16						
			ND			
18						Possible native soils at approximaterly 18 ft.
20						Bottom of test Pit at 18.0 ft. Backfilled test pit to ground surface.

Groundwater Data

			Depth		
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water
5/7/2021	NA	NA	NA	18 ft.	Yes at 8 ft.

Summary

Overburden (Lin FT)	18.0
Rock Cored (Lin FT)	NA

Environmental Test Pit Log

TP 21-39

Project:	Supplimental Phase II Environmental Site Assessment - Lot 1 Wambach Farm Property, Irondequoit, New Yo
Client:	Providene Housing
Contractor	Rusty Miller Excavating

File No:	14695
Sheet No:	1 of 1
Location:	See Plan
Elevation:	
Datum:	
Start:	5/7/2021
Finish	5/7/2021
Operator:	R. Miller
Geologist	S. DeMeo

Item	Casing	Drive Sampler	Core Barrel	Excavation Equipment and Procedures
Type:	NA	NA	NA	Excavator: CAT 250
Inside Diameter (IN):	NA	NA	NA	Reach: 16 feet
Hemmer Weight (LB):	NA	NA	NA	Bucket: 3.5 cubic yards
Hammer Fall (IN):	NA	NA	NA	Other:
Other:	NA	NA	NA	

Depth (FT)	Sample Depth (FT)	Sampler Blows Per 6 Inches	Head Space (PPM)	Sample Number and Recovery	Strata Change (FT)	Visual Classification and Remarks
0			ND		2.0	Dark brown SILT, trace coarse to fine sand, pavment fragments, damp.
2						- FILL -
4			ND			Light brown medium to fine sand, little silt, damp.
6			0.1			- LACUSTRINE -
8						Bottom of test pit at 7.0 ft.
10						Backfilled test pit to ground surface.
12						
14						
16						
18						
20						

Groundwater Data

Date	Time	Elapsed Time (HR)	Depth: Bottom Of Casing	Depth: Bottom Of Hole	Depth: Water
5/7/2021	NA	NA	NA	7.0 ft.	No

Summary

Overburden (Lin FT)	7.0
Rock Cored (Lin FT)	NA

Environmental Test Pit Log

TP 21-40

Project:	Supplimental Phase II Environmental Site Assessment - Lot 1 Wambach Farm Property, Irondequoit, New Yo	File No:	14695
Client:	Providene Housing	Sheet No:	1 of 1
Contractor	Rusty Miller Excavating	Location:	See Plan

Item	Casing	Drive Sampler	Core Barrel	Excavation Equipment and Procedures		Elevation:	
Type:	NA	NA	NA	Excavator:	CAT 250	Datum:	
Inside Diameter (IN):	NA	NA	NA	Reach:	16 feet	Start:	5/7/2021
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Finish	5/7/2021
Hammer Fall (IN):	NA	NA	NA	Other:			
Other:	NA	NA	NA			Operator:	R. Miller
						Geologist	S. DeMeo

Depth (FT)	Sample Depth (FT)	Sampler Blows Per 6 Inches	Head Space (PPM)	Sample Number and Recovery	Strata Change (FT)	Visual Classification and Remarks
0			ND		0.5	Light brown SILT, trace fine sand, damp. - Re-graded native soil -
2			ND			Light brown medium to fine sand, little silt, damp. - LACUSTRINE - -
4						Same. - LACUSTRINE -
6						Bottom of Test Pit at 4.0 Ft. Backfilled Test Pit to ground surface.
8						
10						
12						
14						
16						
18						
20						

Groundwater Data						Summary	
			Depth			Overburden (Lin FT)	4.0
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water	Rock Cored (Lin FT)	NA
5/7/2021	NA	NA	NA	4.0 ft.	No		

APPENDIX 2

280 E. Broad Street
Rochester, NY 14604

TEL: 585.232.5135
www.bergmannpc.com

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Bergmann Associates

For Lab Project ID

211960

Referencing

Wambach Site Culver Road Providence Irondequoit

Prepared

Tuesday, May 18, 2021

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

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: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-38 (4.0-4.5 ft.)		
Lab Sample ID:	211960-01	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-T	<347	ug/Kg		5/12/2021
2,4,5-TP (Silvex)	<347	ug/Kg		5/12/2021
2,4-D	<1390	ug/Kg		5/12/2021

Method Reference(s): EPA 8321B
Subcontractor ELAP ID: 10709

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.106**	mg/Kg		5/14/2021 10:07

Method Reference(s): EPA 7471B
Preparation Date: 5/13/2021
Data File: Hg210514C

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**4.34**	mg/Kg		5/12/2021 17:25
Barium	**44.5**	mg/Kg	D	5/12/2021 17:25
Cadmium	**0.754**	mg/Kg		5/12/2021 17:25
Chromium	**9.93**	mg/Kg		5/12/2021 17:25
Lead	**80.9**	mg/Kg	M	5/12/2021 17:25
Selenium	**1.21**	mg/Kg		5/12/2021 17:25
Silver	< 0.567	mg/Kg		5/12/2021 17:25

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/11/2021
Data File: 210512B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0278	mg/Kg		5/13/2021 15:40

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-38 (4.0-4.5 ft.)		
Lab Sample ID:	211960-01	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

PCB-1221	< 0.0278	mg/Kg			5/13/2021 15:40
PCB-1232	< 0.0278	mg/Kg			5/13/2021 15:40
PCB-1242	< 0.0278	mg/Kg			5/13/2021 15:40
PCB-1248	< 0.0278	mg/Kg			5/13/2021 15:40
PCB-1254	< 0.0278	mg/Kg			5/13/2021 15:40
PCB-1260	< 0.0278	mg/Kg			5/13/2021 15:40
PCB-1262	< 0.0278	mg/Kg			5/13/2021 15:40
PCB-1268	< 0.0278	mg/Kg			5/13/2021 15:40

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**66.9**	16.4 - 99.1		5/13/2021 15:40

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/12/2021

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**14.9**	ug/Kg		5/13/2021 16:06
4,4-DDE	**5.42**	ug/Kg		5/13/2021 16:06
4,4-DDT	< 2.78	ug/Kg		5/13/2021 16:06
Aldrin	**6.45**	ug/Kg		5/13/2021 16:06
alpha-BHC	< 2.78	ug/Kg		5/13/2021 16:06
beta-BHC	< 2.78	ug/Kg		5/13/2021 16:06
cis-Chlordane	**6.25**	ug/Kg		5/13/2021 16:06
delta-BHC	< 2.78	ug/Kg		5/13/2021 16:06
Dieldrin	**28.2**	ug/Kg		5/13/2021 16:06
Endosulfan I	< 2.78	ug/Kg		5/13/2021 16:06
Endosulfan II	< 2.78	ug/Kg		5/13/2021 16:06
Endosulfan Sulfate	< 2.78	ug/Kg		5/13/2021 16:06
Endrin	< 2.78	ug/Kg		5/13/2021 16:06
Endrin Aldehyde	< 2.78	ug/Kg		5/13/2021 16:06
Endrin Ketone	< 2.78	ug/Kg		5/13/2021 16:06

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-38 (4.0-4.5 ft.)		
Lab Sample ID:	211960-01	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

gamma-BHC (Lindane)	< 2.78	ug/Kg			5/13/2021 16:06
Heptachlor	< 2.78	ug/Kg			5/13/2021 16:06
Heptachlor Epoxide	< 2.78	ug/Kg			5/13/2021 16:06
Methoxychlor	**6.84**	ug/Kg		P	5/13/2021 16:06
Toxaphene	< 27.8	ug/Kg			5/13/2021 16:06
trans-Chlordane	**4.84**	ug/Kg			5/13/2021 16:06

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**129**	10 - 134		5/13/2021 16:06
Tetrachloro-m-xylene (1)	**71.4**	26.3 - 99.8		5/13/2021 16:06

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 5/12/2021

Semi-Volatile Organics (Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 295	ug/Kg		5/12/2021 19:07
1,2,4,5-Tetrachlorobenzene	< 295	ug/Kg		5/12/2021 19:07
1,2,4-Trichlorobenzene	< 295	ug/Kg		5/12/2021 19:07
1,2-Dichlorobenzene	< 295	ug/Kg		5/12/2021 19:07
1,3-Dichlorobenzene	< 295	ug/Kg		5/12/2021 19:07
1,4-Dichlorobenzene	< 295	ug/Kg		5/12/2021 19:07
2,2-Oxybis (1-chloropropane)	< 295	ug/Kg		5/12/2021 19:07
2,4-Dinitrotoluene	< 295	ug/Kg		5/12/2021 19:07
2,6-Dinitrotoluene	< 295	ug/Kg		5/12/2021 19:07
2-Chloronaphthalene	< 295	ug/Kg		5/12/2021 19:07
2-Methylnapthalene	< 295	ug/Kg		5/12/2021 19:07
2-Nitroaniline	< 295	ug/Kg		5/12/2021 19:07
3,3'-Dichlorobenzidine	< 295	ug/Kg		5/12/2021 19:07
3-Nitroaniline	< 295	ug/Kg		5/12/2021 19:07
4-Bromophenyl phenyl ether	< 295	ug/Kg		5/12/2021 19:07
4-Chloroaniline	< 295	ug/Kg		5/12/2021 19:07

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-38 (4.0-4.5 ft.)		
Lab Sample ID:	211960-01	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

4-Chlorophenyl phenyl ether	< 295	ug/Kg	5/12/2021 19:07
4-Nitroaniline	< 295	ug/Kg	5/12/2021 19:07
Acenaphthene	< 295	ug/Kg	5/12/2021 19:07
Acenaphthylene	< 295	ug/Kg	5/12/2021 19:07
Acetophenone	< 295	ug/Kg	5/12/2021 19:07
Anthracene	**391**	ug/Kg	5/12/2021 19:07
Atrazine	< 295	ug/Kg	5/12/2021 19:07
Benzaldehyde	< 295	ug/Kg	5/12/2021 19:07
Benzo (a) anthracene	**701**	ug/Kg	5/12/2021 19:07
Benzo (a) pyrene	**724**	ug/Kg	5/12/2021 19:07
Benzo (b) fluoranthene	**612**	ug/Kg	5/12/2021 19:07
Benzo (g,h,i) perylene	**443**	ug/Kg	5/12/2021 19:07
Benzo (k) fluoranthene	**435**	ug/Kg	5/12/2021 19:07
Bis (2-chloroethoxy) methane	< 295	ug/Kg	5/12/2021 19:07
Bis (2-chloroethyl) ether	< 295	ug/Kg	5/12/2021 19:07
Bis (2-ethylhexyl) phthalate	< 295	ug/Kg	5/12/2021 19:07
Butylbenzylphthalate	< 295	ug/Kg	5/12/2021 19:07
Caprolactam	< 295	ug/Kg	5/12/2021 19:07
Carbazole	< 295	ug/Kg	5/12/2021 19:07
Chrysene	**652**	ug/Kg	5/12/2021 19:07
Dibenz (a,h) anthracene	< 295	ug/Kg	5/12/2021 19:07
Dibenzofuran	< 295	ug/Kg	5/12/2021 19:07
Diethyl phthalate	< 295	ug/Kg	5/12/2021 19:07
Dimethyl phthalate	< 295	ug/Kg	5/12/2021 19:07
Di-n-butyl phthalate	< 295	ug/Kg	5/12/2021 19:07
Di-n-octylphthalate	< 295	ug/Kg	5/12/2021 19:07
Fluoranthene	**1510**	ug/Kg	5/12/2021 19:07
Fluorene	**360**	ug/Kg	5/12/2021 19:07
Hexachlorobenzene	< 295	ug/Kg	5/12/2021 19:07
Hexachlorobutadiene	< 295	ug/Kg	5/12/2021 19:07

Sample Identifier:	TP21-38 (4.0-4.5 ft.)		
Lab Sample ID:	211960-01	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Hexachlorocyclopentadiene	< 1180	ug/Kg		5/12/2021 19:07
Hexachloroethane	< 295	ug/Kg		5/12/2021 19:07
Indeno (1,2,3-cd) pyrene	**437**	ug/Kg		5/12/2021 19:07
Isophorone	< 295	ug/Kg		5/12/2021 19:07
Naphthalene	**578**	ug/Kg		5/12/2021 19:07
Nitrobenzene	< 295	ug/Kg		5/12/2021 19:07
N-Nitroso-di-n-propylamine	< 295	ug/Kg		5/12/2021 19:07
N-Nitrosodiphenylamine	< 295	ug/Kg		5/12/2021 19:07
Phenanthrene	**1110**	ug/Kg		5/12/2021 19:07
Pyrene	**1270**	ug/Kg		5/12/2021 19:07

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**53.8**	34.6 - 83.9		5/12/2021 19:07
Nitrobenzene-d5	**50.9**	32.4 - 76		5/12/2021 19:07
Terphenyl-d14	**57.9**	38.2 - 88.8		5/12/2021 19:07

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/11/2021
Data File: B54067.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.03	ug/Kg		5/11/2021 14:59
1,1,2,2-Tetrachloroethane	< 8.03	ug/Kg		5/11/2021 14:59
1,1,2-Trichloroethane	< 8.03	ug/Kg		5/11/2021 14:59
1,1-Dichloroethane	< 8.03	ug/Kg		5/11/2021 14:59
1,1-Dichloroethene	< 8.03	ug/Kg		5/11/2021 14:59
1,2,3-Trichlorobenzene	< 20.1	ug/Kg		5/11/2021 14:59
1,2,4-Trichlorobenzene	< 20.1	ug/Kg		5/11/2021 14:59
1,2-Dibromo-3-Chloropropane	< 40.1	ug/Kg		5/11/2021 14:59
1,2-Dibromoethane	< 8.03	ug/Kg		5/11/2021 14:59
1,2-Dichlorobenzene	< 8.03	ug/Kg		5/11/2021 14:59
1,2-Dichloroethane	< 8.03	ug/Kg		5/11/2021 14:59

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-38 (4.0-4.5 ft.)		
Lab Sample ID:	211960-01	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

1,2-Dichloropropane	< 8.03	ug/Kg	5/11/2021 14:59
1,3-Dichlorobenzene	< 8.03	ug/Kg	5/11/2021 14:59
1,4-Dichlorobenzene	< 8.03	ug/Kg	5/11/2021 14:59
1,4-Dioxane	< 40.1	ug/Kg	5/11/2021 14:59
2-Butanone	**42.3**	ug/Kg	5/11/2021 14:59
2-Hexanone	< 20.1	ug/Kg	5/11/2021 14:59
4-Methyl-2-pentanone	< 20.1	ug/Kg	5/11/2021 14:59
Acetone	**252**	ug/Kg	5/11/2021 14:59
Benzene	< 8.03	ug/Kg	5/11/2021 14:59
Bromochloromethane	< 20.1	ug/Kg	5/11/2021 14:59
Bromodichloromethane	< 8.03	ug/Kg	5/11/2021 14:59
Bromoform	< 20.1	ug/Kg	5/11/2021 14:59
Bromomethane	< 8.03	ug/Kg	5/11/2021 14:59
Carbon disulfide	< 8.03	ug/Kg	5/11/2021 14:59
Carbon Tetrachloride	< 8.03	ug/Kg	5/11/2021 14:59
Chlorobenzene	< 8.03	ug/Kg	5/11/2021 14:59
Chloroethane	< 8.03	ug/Kg	5/11/2021 14:59
Chloroform	< 8.03	ug/Kg	5/11/2021 14:59
Chloromethane	< 8.03	ug/Kg	5/11/2021 14:59
cis-1,2-Dichloroethene	< 8.03	ug/Kg	5/11/2021 14:59
cis-1,3-Dichloropropene	< 8.03	ug/Kg	5/11/2021 14:59
Cyclohexane	< 40.1	ug/Kg	5/11/2021 14:59
Dibromochloromethane	< 8.03	ug/Kg	5/11/2021 14:59
Dichlorodifluoromethane	< 8.03	ug/Kg	5/11/2021 14:59
Ethylbenzene	< 8.03	ug/Kg	5/11/2021 14:59
Freon 113	< 8.03	ug/Kg	5/11/2021 14:59
Isopropylbenzene	< 8.03	ug/Kg	5/11/2021 14:59
m,p-Xylene	< 8.03	ug/Kg	5/11/2021 14:59
Methyl acetate	< 8.03	ug/Kg	5/11/2021 14:59
Methyl tert-butyl Ether	< 8.03	ug/Kg	5/11/2021 14:59

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-38 (4.0-4.5 ft.)		
Lab Sample ID:	211960-01	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Methylcyclohexane	< 8.03	ug/Kg		5/11/2021 14:59
Methylene chloride	< 20.1	ug/Kg		5/11/2021 14:59
o-Xylene	< 8.03	ug/Kg		5/11/2021 14:59
Styrene	< 20.1	ug/Kg		5/11/2021 14:59
Tetrachloroethene	< 8.03	ug/Kg		5/11/2021 14:59
Toluene	< 8.03	ug/Kg		5/11/2021 14:59
trans-1,2-Dichloroethene	< 8.03	ug/Kg		5/11/2021 14:59
trans-1,3-Dichloropropene	< 8.03	ug/Kg		5/11/2021 14:59
Trichloroethene	< 8.03	ug/Kg		5/11/2021 14:59
Trichlorofluoromethane	< 8.03	ug/Kg		5/11/2021 14:59
Vinyl chloride	< 8.03	ug/Kg		5/11/2021 14:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**99.5**	52.5 - 151		5/11/2021 14:59
4-Bromofluorobenzene	**92.2**	37.7 - 146		5/11/2021 14:59
Pentafluorobenzene	**96.7**	92.1 - 115		5/11/2021 14:59
Toluene-D8	**96.5**	74 - 120		5/11/2021 14:59

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

Data File: z01495.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.

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.507	mg/Kg		5/12/2021

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 5/12/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-37 (2.5-3.0 ft.)		
Lab Sample ID:	211960-02	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-T	<360	ug/Kg		5/12/2021
2,4,5-TP (Silvex)	<360	ug/Kg		5/12/2021
2,4-D	<1440	ug/Kg		5/12/2021

Method Reference(s): EPA 8321B
Subcontractor ELAP ID: 10709

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0230**	mg/Kg		5/14/2021 10:08

Method Reference(s): EPA 7471B
Preparation Date: 5/13/2021
Data File: Hg210514C

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**2.67**	mg/Kg		5/12/2021 17:39
Barium	**35.1**	mg/Kg		5/12/2021 17:39
Cadmium	**0.655**	mg/Kg		5/12/2021 17:39
Chromium	**16.3**	mg/Kg		5/12/2021 17:39
Lead	**6.77**	mg/Kg		5/12/2021 17:39
Selenium	**2.09**	mg/Kg		5/12/2021 17:39
Silver	< 0.577	mg/Kg		5/12/2021 17:39

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/11/2021
Data File: 210512B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0291	mg/Kg		5/13/2021 03:05

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-37 (2.5-3.0 ft.)		
Lab Sample ID:	211960-02	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

PCB-1221	< 0.0291	mg/Kg		5/13/2021 03:05
PCB-1232	< 0.0291	mg/Kg		5/13/2021 03:05
PCB-1242	< 0.0291	mg/Kg		5/13/2021 03:05
PCB-1248	< 0.0291	mg/Kg		5/13/2021 03:05
PCB-1254	< 0.0291	mg/Kg		5/13/2021 03:05
PCB-1260	< 0.0291	mg/Kg		5/13/2021 03:05
PCB-1262	< 0.0291	mg/Kg		5/13/2021 03:05
PCB-1268	< 0.0291	mg/Kg		5/13/2021 03:05

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**42.0**	16.4 - 99.1		5/13/2021 03:05

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/12/2021

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 2.91	ug/Kg		5/12/2021 18:45
4,4-DDE	< 2.91	ug/Kg		5/12/2021 18:45
4,4-DDT	< 2.91	ug/Kg		5/12/2021 18:45
Aldrin	< 2.91	ug/Kg		5/12/2021 18:45
alpha-BHC	< 2.91	ug/Kg		5/12/2021 18:45
beta-BHC	< 2.91	ug/Kg		5/12/2021 18:45
cis-Chlordane	< 2.91	ug/Kg		5/12/2021 18:45
delta-BHC	< 2.91	ug/Kg		5/12/2021 18:45
Dieldrin	< 2.91	ug/Kg		5/12/2021 18:45
Endosulfan I	< 2.91	ug/Kg		5/12/2021 18:45
Endosulfan II	< 2.91	ug/Kg		5/12/2021 18:45
Endosulfan Sulfate	< 2.91	ug/Kg		5/12/2021 18:45
Endrin	< 2.91	ug/Kg		5/12/2021 18:45
Endrin Aldehyde	< 2.91	ug/Kg		5/12/2021 18:45
Endrin Ketone	< 2.91	ug/Kg		5/12/2021 18:45

Sample Identifier:	TP21-37 (2.5-3.0 ft.)		
Lab Sample ID:	211960-02	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

gamma-BHC (Lindane)	< 2.91	ug/Kg		5/12/2021 18:45
Heptachlor	< 2.91	ug/Kg		5/12/2021 18:45
Heptachlor Epoxide	< 2.91	ug/Kg		5/12/2021 18:45
Methoxychlor	< 2.91	ug/Kg		5/12/2021 18:45
Toxaphene	< 29.1	ug/Kg		5/12/2021 18:45
trans-Chlordane	< 2.91	ug/Kg		5/12/2021 18:45

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**41.6**	10 - 134		5/12/2021 18:45
Tetrachloro-m-xylene (1)	**53.5**	26.3 - 99.8		5/12/2021 18:45

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 5/12/2021

Semi-Volatile Organics (Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 324	ug/Kg		5/12/2021 19:35
1,2,4,5-Tetrachlorobenzene	< 324	ug/Kg		5/12/2021 19:35
1,2,4-Trichlorobenzene	< 324	ug/Kg		5/12/2021 19:35
1,2-Dichlorobenzene	< 324	ug/Kg		5/12/2021 19:35
1,3-Dichlorobenzene	< 324	ug/Kg		5/12/2021 19:35
1,4-Dichlorobenzene	< 324	ug/Kg		5/12/2021 19:35
2,2-Oxybis (1-chloropropane)	< 324	ug/Kg		5/12/2021 19:35
2,4-Dinitrotoluene	< 324	ug/Kg		5/12/2021 19:35
2,6-Dinitrotoluene	< 324	ug/Kg		5/12/2021 19:35
2-Chloronaphthalene	< 324	ug/Kg		5/12/2021 19:35
2-Methylnapthalene	< 324	ug/Kg		5/12/2021 19:35
2-Nitroaniline	< 324	ug/Kg		5/12/2021 19:35
3,3'-Dichlorobenzidine	< 324	ug/Kg		5/12/2021 19:35
3-Nitroaniline	< 324	ug/Kg		5/12/2021 19:35
4-Bromophenyl phenyl ether	< 324	ug/Kg		5/12/2021 19:35
4-Chloroaniline	< 324	ug/Kg		5/12/2021 19:35

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-37 (2.5-3.0 ft.)		
Lab Sample ID:	211960-02	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

4-Chlorophenyl phenyl ether	< 324	ug/Kg	5/12/2021 19:35
4-Nitroaniline	< 324	ug/Kg	5/12/2021 19:35
Acenaphthene	< 324	ug/Kg	5/12/2021 19:35
Acenaphthylene	< 324	ug/Kg	5/12/2021 19:35
Acetophenone	< 324	ug/Kg	5/12/2021 19:35
Anthracene	< 324	ug/Kg	5/12/2021 19:35
Atrazine	< 324	ug/Kg	5/12/2021 19:35
Benzaldehyde	< 324	ug/Kg	5/12/2021 19:35
Benzo (a) anthracene	< 324	ug/Kg	5/12/2021 19:35
Benzo (a) pyrene	< 324	ug/Kg	5/12/2021 19:35
Benzo (b) fluoranthene	< 324	ug/Kg	5/12/2021 19:35
Benzo (g,h,i) perylene	< 324	ug/Kg	5/12/2021 19:35
Benzo (k) fluoranthene	< 324	ug/Kg	5/12/2021 19:35
Bis (2-chloroethoxy) methane	< 324	ug/Kg	5/12/2021 19:35
Bis (2-chloroethyl) ether	< 324	ug/Kg	5/12/2021 19:35
Bis (2-ethylhexyl) phthalate	< 324	ug/Kg	5/12/2021 19:35
Butylbenzylphthalate	< 324	ug/Kg	5/12/2021 19:35
Caprolactam	< 324	ug/Kg	5/12/2021 19:35
Carbazole	< 324	ug/Kg	5/12/2021 19:35
Chrysene	< 324	ug/Kg	5/12/2021 19:35
Dibenz (a,h) anthracene	< 324	ug/Kg	5/12/2021 19:35
Dibenzofuran	< 324	ug/Kg	5/12/2021 19:35
Diethyl phthalate	< 324	ug/Kg	5/12/2021 19:35
Dimethyl phthalate	< 324	ug/Kg	5/12/2021 19:35
Di-n-butyl phthalate	< 324	ug/Kg	5/12/2021 19:35
Di-n-octylphthalate	< 324	ug/Kg	5/12/2021 19:35
Fluoranthene	< 324	ug/Kg	5/12/2021 19:35
Fluorene	< 324	ug/Kg	5/12/2021 19:35
Hexachlorobenzene	< 324	ug/Kg	5/12/2021 19:35
Hexachlorobutadiene	< 324	ug/Kg	5/12/2021 19:35

Sample Identifier:	TP21-37 (2.5-3.0 ft.)		
Lab Sample ID:	211960-02	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Hexachlorocyclopentadiene	< 1300	ug/Kg		5/12/2021 19:35
Hexachloroethane	< 324	ug/Kg		5/12/2021 19:35
Indeno (1,2,3-cd) pyrene	< 324	ug/Kg		5/12/2021 19:35
Isophorone	< 324	ug/Kg		5/12/2021 19:35
Naphthalene	< 324	ug/Kg		5/12/2021 19:35
Nitrobenzene	< 324	ug/Kg		5/12/2021 19:35
N-Nitroso-di-n-propylamine	< 324	ug/Kg		5/12/2021 19:35
N-Nitrosodiphenylamine	< 324	ug/Kg		5/12/2021 19:35
Phenanthrene	< 324	ug/Kg		5/12/2021 19:35
Pyrene	< 324	ug/Kg		5/12/2021 19:35

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**75.7**	34.6 - 83.9		5/12/2021 19:35
Nitrobenzene-d5	**70.7**	32.4 - 76		5/12/2021 19:35
Terphenyl-d14	**86.7**	38.2 - 88.8		5/12/2021 19:35

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/11/2021
Data File: B54068.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 9.92	ug/Kg		5/11/2021 15:18
1,1,2,2-Tetrachloroethane	< 9.92	ug/Kg		5/11/2021 15:18
1,1,2-Trichloroethane	< 9.92	ug/Kg		5/11/2021 15:18
1,1-Dichloroethane	< 9.92	ug/Kg		5/11/2021 15:18
1,1-Dichloroethene	< 9.92	ug/Kg		5/11/2021 15:18
1,2,3-Trichlorobenzene	< 24.8	ug/Kg		5/11/2021 15:18
1,2,4-Trichlorobenzene	< 24.8	ug/Kg		5/11/2021 15:18
1,2-Dibromo-3-Chloropropane	< 49.6	ug/Kg		5/11/2021 15:18
1,2-Dibromoethane	< 9.92	ug/Kg		5/11/2021 15:18
1,2-Dichlorobenzene	< 9.92	ug/Kg		5/11/2021 15:18
1,2-Dichloroethane	< 9.92	ug/Kg		5/11/2021 15:18

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-37 (2.5-3.0 ft.)		
Lab Sample ID:	211960-02	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

1,2-Dichloropropane	< 9.92	ug/Kg	5/11/2021 15:18
1,3-Dichlorobenzene	< 9.92	ug/Kg	5/11/2021 15:18
1,4-Dichlorobenzene	< 9.92	ug/Kg	5/11/2021 15:18
1,4-Dioxane	< 49.6	ug/Kg	5/11/2021 15:18
2-Butanone	< 49.6	ug/Kg	5/11/2021 15:18
2-Hexanone	< 24.8	ug/Kg	5/11/2021 15:18
4-Methyl-2-pentanone	< 24.8	ug/Kg	5/11/2021 15:18
Acetone	**959**	ug/Kg	5/11/2021 15:18
Benzene	< 9.92	ug/Kg	5/11/2021 15:18
Bromochloromethane	< 24.8	ug/Kg	5/11/2021 15:18
Bromodichloromethane	< 9.92	ug/Kg	5/11/2021 15:18
Bromoform	< 24.8	ug/Kg	5/11/2021 15:18
Bromomethane	< 9.92	ug/Kg	5/11/2021 15:18
Carbon disulfide	< 9.92	ug/Kg	5/11/2021 15:18
Carbon Tetrachloride	< 9.92	ug/Kg	5/11/2021 15:18
Chlorobenzene	< 9.92	ug/Kg	5/11/2021 15:18
Chloroethane	< 9.92	ug/Kg	5/11/2021 15:18
Chloroform	< 9.92	ug/Kg	5/11/2021 15:18
Chloromethane	< 9.92	ug/Kg	5/11/2021 15:18
cis-1,2-Dichloroethene	< 9.92	ug/Kg	5/11/2021 15:18
cis-1,3-Dichloropropene	< 9.92	ug/Kg	5/11/2021 15:18
Cyclohexane	< 49.6	ug/Kg	5/11/2021 15:18
Dibromochloromethane	< 9.92	ug/Kg	5/11/2021 15:18
Dichlorodifluoromethane	< 9.92	ug/Kg	5/11/2021 15:18
Ethylbenzene	< 9.92	ug/Kg	5/11/2021 15:18
Freon 113	< 9.92	ug/Kg	5/11/2021 15:18
Isopropylbenzene	< 9.92	ug/Kg	5/11/2021 15:18
m,p-Xylene	< 9.92	ug/Kg	5/11/2021 15:18
Methyl acetate	< 9.92	ug/Kg	5/11/2021 15:18
Methyl tert-butyl Ether	< 9.92	ug/Kg	5/11/2021 15:18

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-37 (2.5-3.0 ft.)		
Lab Sample ID:	211960-02	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Methylcyclohexane	< 9.92	ug/Kg		5/11/2021 15:18
Methylene chloride	< 24.8	ug/Kg		5/11/2021 15:18
o-Xylene	< 9.92	ug/Kg		5/11/2021 15:18
Styrene	< 24.8	ug/Kg		5/11/2021 15:18
Tetrachloroethene	< 9.92	ug/Kg		5/11/2021 15:18
Toluene	< 9.92	ug/Kg		5/11/2021 15:18
trans-1,2-Dichloroethene	< 9.92	ug/Kg		5/11/2021 15:18
trans-1,3-Dichloropropene	< 9.92	ug/Kg		5/11/2021 15:18
Trichloroethene	< 9.92	ug/Kg		5/11/2021 15:18
Trichlorofluoromethane	< 9.92	ug/Kg		5/11/2021 15:18
Vinyl chloride	< 9.92	ug/Kg		5/11/2021 15:18

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**104**	52.5 - 151		5/11/2021 15:18
4-Bromofluorobenzene	**95.6**	37.7 - 146		5/11/2021 15:18
Pentafluorobenzene	**95.8**	92.1 - 115		5/11/2021 15:18
Toluene-D8	**103**	74 - 120		5/11/2021 15:18

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: z01496.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.

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.588	mg/Kg		5/12/2021

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 5/12/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-36 (2.5-3.0 ft.)		
Lab Sample ID:	211960-03	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-T	<333	ug/Kg		5/12/2021
2,4,5-TP (Silvex)	<333	ug/Kg		5/12/2021
2,4-D	<1333	ug/Kg		5/12/2021

Method Reference(s): EPA 8321B
Subcontractor ELAP ID: 10709

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0893**	mg/Kg		5/14/2021 10:10

Method Reference(s): EPA 7471B
Preparation Date: 5/13/2021
Data File: Hg210514C

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**4.30**	mg/Kg		5/12/2021 17:43
Barium	**74.6**	mg/Kg		5/12/2021 17:43
Cadmium	**0.874**	mg/Kg		5/12/2021 17:43
Chromium	**9.71**	mg/Kg		5/12/2021 17:43
Lead	**82.7**	mg/Kg		5/12/2021 17:43
Selenium	**1.23**	mg/Kg		5/13/2021 16:28
Silver	< 0.545	mg/Kg		5/12/2021 17:43

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/11/2021
Data File: 210512B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0291	mg/Kg		5/13/2021 16:04

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-36 (2.5-3.0 ft.)		
Lab Sample ID:	211960-03	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

PCB-1221	< 0.0291	mg/Kg		5/13/2021 16:04
PCB-1232	< 0.0291	mg/Kg		5/13/2021 16:04
PCB-1242	< 0.0291	mg/Kg		5/13/2021 16:04
PCB-1248	< 0.0291	mg/Kg		5/13/2021 16:04
PCB-1254	< 0.0291	mg/Kg		5/13/2021 16:04
PCB-1260	< 0.0291	mg/Kg		5/13/2021 16:04
PCB-1262	< 0.0291	mg/Kg		5/13/2021 16:04
PCB-1268	< 0.0291	mg/Kg		5/13/2021 16:04

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**57.0**	16.4 - 99.1		5/13/2021 16:04

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/12/2021

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**9.09**	ug/Kg		5/13/2021 16:22
4,4-DDE	**6.28**	ug/Kg		5/13/2021 16:22
4,4-DDT	< 2.91	ug/Kg		5/13/2021 16:22
Aldrin	< 2.91	ug/Kg		5/13/2021 16:22
alpha-BHC	< 2.91	ug/Kg		5/13/2021 16:22
beta-BHC	< 2.91	ug/Kg		5/13/2021 16:22
cis-Chlordane	**27.7**	ug/Kg	P	5/13/2021 16:22
delta-BHC	< 2.91	ug/Kg		5/13/2021 16:22
Dieldrin	**8.32**	ug/Kg	P	5/13/2021 16:22
Endosulfan I	< 2.91	ug/Kg		5/13/2021 16:22
Endosulfan II	< 2.91	ug/Kg		5/13/2021 16:22
Endosulfan Sulfate	**3.33**	ug/Kg	P	5/13/2021 16:22
Endrin	< 2.91	ug/Kg		5/13/2021 16:22
Endrin Aldehyde	< 2.91	ug/Kg		5/13/2021 16:22
Endrin Ketone	< 2.91	ug/Kg		5/13/2021 16:22

Sample Identifier:	TP21-36 (2.5-3.0 ft.)		
Lab Sample ID:	211960-03	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

gamma-BHC (Lindane)	< 2.91	ug/Kg			5/13/2021 16:22
Heptachlor	< 2.91	ug/Kg			5/13/2021 16:22
Heptachlor Epoxide	**12.4**	ug/Kg			5/13/2021 16:22
Methoxychlor	**6.69**	ug/Kg		P	5/13/2021 16:22
Toxaphene	< 29.1	ug/Kg			5/13/2021 16:22
trans-Chlordane	**53.6**	ug/Kg			5/13/2021 16:22

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**83.9**	10 - 134		5/13/2021 16:22
Tetrachloro-m-xylene (1)	**71.6**	26.3 - 99.8		5/13/2021 16:22

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 5/12/2021

Semi-Volatile Organics (Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 289	ug/Kg		5/12/2021 20:04
1,2,4,5-Tetrachlorobenzene	< 289	ug/Kg		5/12/2021 20:04
1,2,4-Trichlorobenzene	< 289	ug/Kg		5/12/2021 20:04
1,2-Dichlorobenzene	< 289	ug/Kg		5/12/2021 20:04
1,3-Dichlorobenzene	< 289	ug/Kg		5/12/2021 20:04
1,4-Dichlorobenzene	< 289	ug/Kg		5/12/2021 20:04
2,2-Oxybis (1-chloropropane)	< 289	ug/Kg		5/12/2021 20:04
2,4-Dinitrotoluene	< 289	ug/Kg		5/12/2021 20:04
2,6-Dinitrotoluene	< 289	ug/Kg		5/12/2021 20:04
2-Chloronaphthalene	< 289	ug/Kg		5/12/2021 20:04
2-Methylnapthalene	**852**	ug/Kg		5/12/2021 20:04
2-Nitroaniline	< 289	ug/Kg		5/12/2021 20:04
3,3'-Dichlorobenzidine	< 289	ug/Kg		5/12/2021 20:04
3-Nitroaniline	< 289	ug/Kg		5/12/2021 20:04
4-Bromophenyl phenyl ether	< 289	ug/Kg		5/12/2021 20:04
4-Chloroaniline	< 289	ug/Kg		5/12/2021 20:04

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-36 (2.5-3.0 ft.)		
Lab Sample ID:	211960-03	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

4-Chlorophenyl phenyl ether	< 289	ug/Kg	5/12/2021 20:04
4-Nitroaniline	< 289	ug/Kg	5/12/2021 20:04
Acenaphthene	**916**	ug/Kg	5/12/2021 20:04
Acenaphthylene	< 289	ug/Kg	5/12/2021 20:04
Acetophenone	< 289	ug/Kg	5/12/2021 20:04
Anthracene	**1110**	ug/Kg	5/12/2021 20:04
Atrazine	< 289	ug/Kg	5/12/2021 20:04
Benzaldehyde	< 289	ug/Kg	5/12/2021 20:04
Benzo (a) anthracene	**1940**	ug/Kg	5/12/2021 20:04
Benzo (a) pyrene	**1560**	ug/Kg	5/12/2021 20:04
Benzo (b) fluoranthene	**1200**	ug/Kg	5/12/2021 20:04
Benzo (g,h,i) perylene	**785**	ug/Kg	5/12/2021 20:04
Benzo (k) fluoranthene	**1230**	ug/Kg	5/12/2021 20:04
Bis (2-chloroethoxy) methane	< 289	ug/Kg	5/12/2021 20:04
Bis (2-chloroethyl) ether	< 289	ug/Kg	5/12/2021 20:04
Bis (2-ethylhexyl) phthalate	< 289	ug/Kg	5/12/2021 20:04
Butylbenzylphthalate	< 289	ug/Kg	5/12/2021 20:04
Caprolactam	< 289	ug/Kg	5/12/2021 20:04
Carbazole	**399**	ug/Kg	5/12/2021 20:04
Chrysene	**1680**	ug/Kg	5/12/2021 20:04
Dibenz (a,h) anthracene	**290**	ug/Kg	5/12/2021 20:04
Dibenzofuran	**1210**	ug/Kg	5/12/2021 20:04
Diethyl phthalate	< 289	ug/Kg	5/12/2021 20:04
Dimethyl phthalate	< 289	ug/Kg	5/12/2021 20:04
Di-n-butyl phthalate	< 289	ug/Kg	5/12/2021 20:04
Di-n-octylphthalate	< 289	ug/Kg	5/12/2021 20:04
Fluoranthene	**4480**	ug/Kg	5/12/2021 20:04
Fluorene	**1330**	ug/Kg	5/12/2021 20:04
Hexachlorobenzene	< 289	ug/Kg	5/12/2021 20:04
Hexachlorobutadiene	< 289	ug/Kg	5/12/2021 20:04

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-36 (2.5-3.0 ft.)		
Lab Sample ID:	211960-03	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Hexachlorocyclopentadiene	< 1160	ug/Kg		5/12/2021 20:04
Hexachloroethane	< 289	ug/Kg		5/12/2021 20:04
Indeno (1,2,3-cd) pyrene	**939**	ug/Kg		5/12/2021 20:04
Isophorone	< 289	ug/Kg		5/12/2021 20:04
Naphthalene	**2180**	ug/Kg		5/12/2021 20:04
Nitrobenzene	< 289	ug/Kg		5/12/2021 20:04
N-Nitroso-di-n-propylamine	< 289	ug/Kg		5/12/2021 20:04
N-Nitrosodiphenylamine	< 289	ug/Kg		5/12/2021 20:04
Phenanthrene	**5040**	ug/Kg		5/12/2021 20:04
Pyrene	**3470**	ug/Kg		5/12/2021 20:04

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**63.1**	34.6 - 83.9		5/12/2021 20:04
Nitrobenzene-d5	**62.6**	32.4 - 76		5/12/2021 20:04
Terphenyl-d14	**71.0**	38.2 - 88.8		5/12/2021 20:04

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/11/2021
Data File: B54069.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 6.78	ug/Kg		5/11/2021 15:38
1,1,2,2-Tetrachloroethane	< 6.78	ug/Kg		5/11/2021 15:38
1,1,2-Trichloroethane	< 6.78	ug/Kg		5/11/2021 15:38
1,1-Dichloroethane	< 6.78	ug/Kg		5/11/2021 15:38
1,1-Dichloroethene	< 6.78	ug/Kg		5/11/2021 15:38
1,2,3-Trichlorobenzene	< 16.9	ug/Kg		5/11/2021 15:38
1,2,4-Trichlorobenzene	< 16.9	ug/Kg		5/11/2021 15:38
1,2-Dibromo-3-Chloropropane	< 33.9	ug/Kg		5/11/2021 15:38
1,2-Dibromoethane	< 6.78	ug/Kg		5/11/2021 15:38
1,2-Dichlorobenzene	< 6.78	ug/Kg		5/11/2021 15:38
1,2-Dichloroethane	< 6.78	ug/Kg		5/11/2021 15:38

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-36 (2.5-3.0 ft.)		
Lab Sample ID:	211960-03	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

1,2-Dichloropropane	< 6.78	ug/Kg	5/11/2021 15:38
1,3-Dichlorobenzene	< 6.78	ug/Kg	5/11/2021 15:38
1,4-Dichlorobenzene	< 6.78	ug/Kg	5/11/2021 15:38
1,4-Dioxane	< 33.9	ug/Kg	5/11/2021 15:38
2-Butanone	< 33.9	ug/Kg	5/11/2021 15:38
2-Hexanone	< 16.9	ug/Kg	5/11/2021 15:38
4-Methyl-2-pentanone	< 16.9	ug/Kg	5/11/2021 15:38
Acetone	**121**	ug/Kg	5/11/2021 15:38
Benzene	< 6.78	ug/Kg	5/11/2021 15:38
Bromochloromethane	< 16.9	ug/Kg	5/11/2021 15:38
Bromodichloromethane	< 6.78	ug/Kg	5/11/2021 15:38
Bromoform	< 16.9	ug/Kg	5/11/2021 15:38
Bromomethane	< 6.78	ug/Kg	5/11/2021 15:38
Carbon disulfide	< 6.78	ug/Kg	5/11/2021 15:38
Carbon Tetrachloride	< 6.78	ug/Kg	5/11/2021 15:38
Chlorobenzene	< 6.78	ug/Kg	5/11/2021 15:38
Chloroethane	< 6.78	ug/Kg	5/11/2021 15:38
Chloroform	< 6.78	ug/Kg	5/11/2021 15:38
Chloromethane	< 6.78	ug/Kg	5/11/2021 15:38
cis-1,2-Dichloroethene	< 6.78	ug/Kg	5/11/2021 15:38
cis-1,3-Dichloropropene	< 6.78	ug/Kg	5/11/2021 15:38
Cyclohexane	< 33.9	ug/Kg	5/11/2021 15:38
Dibromochloromethane	< 6.78	ug/Kg	5/11/2021 15:38
Dichlorodifluoromethane	< 6.78	ug/Kg	5/11/2021 15:38
Ethylbenzene	< 6.78	ug/Kg	5/11/2021 15:38
Freon 113	< 6.78	ug/Kg	5/11/2021 15:38
Isopropylbenzene	< 6.78	ug/Kg	5/11/2021 15:38
m,p-Xylene	< 6.78	ug/Kg	5/11/2021 15:38
Methyl acetate	< 6.78	ug/Kg	5/11/2021 15:38
Methyl tert-butyl Ether	< 6.78	ug/Kg	5/11/2021 15:38

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-36 (2.5-3.0 ft.)		
Lab Sample ID:	211960-03	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Methylcyclohexane	< 6.78	ug/Kg		5/11/2021 15:38
Methylene chloride	< 16.9	ug/Kg		5/11/2021 15:38
o-Xylene	< 6.78	ug/Kg		5/11/2021 15:38
Styrene	< 16.9	ug/Kg		5/11/2021 15:38
Tetrachloroethene	< 6.78	ug/Kg		5/11/2021 15:38
Toluene	< 6.78	ug/Kg		5/11/2021 15:38
trans-1,2-Dichloroethene	< 6.78	ug/Kg		5/11/2021 15:38
trans-1,3-Dichloropropene	< 6.78	ug/Kg		5/11/2021 15:38
Trichloroethene	< 6.78	ug/Kg		5/11/2021 15:38
Trichlorofluoromethane	< 6.78	ug/Kg		5/11/2021 15:38
Vinyl chloride	< 6.78	ug/Kg		5/11/2021 15:38

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**100**	52.5 - 151		5/11/2021 15:38
4-Bromofluorobenzene	**91.2**	37.7 - 146		5/11/2021 15:38
Pentafluorobenzene	**97.7**	92.1 - 115		5/11/2021 15:38
Toluene-D8	**96.2**	74 - 120		5/11/2021 15:38

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: z01497.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.

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.467	mg/Kg		5/12/2021

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 5/12/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-34 (12.5-13 ft.)		
Lab Sample ID:	211960-04	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-T	<354	ug/Kg		5/12/2021
2,4,5-TP (Silvex)	<354	ug/Kg		5/12/2021
2,4-D	<1420	ug/Kg		5/12/2021

Method Reference(s): EPA 8321B
Subcontractor ELAP ID: 10709

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0963**	mg/Kg		5/14/2021 10:11

Method Reference(s): EPA 7471B
Preparation Date: 5/13/2021
Data File: Hg210514C

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**2.86**	mg/Kg		5/12/2021 17:48
Barium	**41.6**	mg/Kg		5/12/2021 17:48
Cadmium	**0.730**	mg/Kg		5/12/2021 17:48
Chromium	**12.5**	mg/Kg		5/12/2021 17:48
Lead	**69.6**	mg/Kg		5/12/2021 17:48
Selenium	**1.24**	mg/Kg		5/12/2021 17:48
Silver	< 0.572	mg/Kg		5/12/2021 17:48

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/11/2021
Data File: 210512B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0276	mg/Kg		5/13/2021 16:28

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-34 (12.5-13 ft.)		
Lab Sample ID:	211960-04	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

PCB-1221	< 0.0276	mg/Kg		5/13/2021 16:28
PCB-1232	< 0.0276	mg/Kg		5/13/2021 16:28
PCB-1242	< 0.0276	mg/Kg		5/13/2021 16:28
PCB-1248	< 0.0276	mg/Kg		5/13/2021 16:28
PCB-1254	< 0.0276	mg/Kg		5/13/2021 16:28
PCB-1260	< 0.0276	mg/Kg		5/13/2021 16:28
PCB-1262	< 0.0276	mg/Kg		5/13/2021 16:28
PCB-1268	< 0.0276	mg/Kg		5/13/2021 16:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**41.5**	16.4 - 99.1		5/13/2021 16:28

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/12/2021

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 2.76	ug/Kg		5/13/2021 16:38
4,4-DDE	< 2.76	ug/Kg		5/13/2021 16:38
4,4-DDT	< 2.76	ug/Kg		5/13/2021 16:38
Aldrin	< 2.76	ug/Kg		5/13/2021 16:38
alpha-BHC	< 2.76	ug/Kg		5/13/2021 16:38
beta-BHC	< 2.76	ug/Kg		5/13/2021 16:38
cis-Chlordane	< 2.76	ug/Kg		5/13/2021 16:38
delta-BHC	< 2.76	ug/Kg		5/13/2021 16:38
Dieldrin	**3.66**	ug/Kg	P	5/13/2021 16:38
Endosulfan I	< 2.76	ug/Kg		5/13/2021 16:38
Endosulfan II	< 2.76	ug/Kg		5/13/2021 16:38
Endosulfan Sulfate	**4.04**	ug/Kg	P	5/13/2021 16:38
Endrin	< 2.76	ug/Kg		5/13/2021 16:38
Endrin Aldehyde	< 2.76	ug/Kg		5/13/2021 16:38
Endrin Ketone	< 2.76	ug/Kg		5/13/2021 16:38

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-34 (12.5-13 ft.)		
Lab Sample ID:	211960-04	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

gamma-BHC (Lindane)	< 2.76	ug/Kg		5/13/2021 16:38
Heptachlor	< 2.76	ug/Kg		5/13/2021 16:38
Heptachlor Epoxide	< 2.76	ug/Kg		5/13/2021 16:38
Methoxychlor	< 2.76	ug/Kg		5/13/2021 16:38
Toxaphene	< 27.6	ug/Kg		5/13/2021 16:38
trans-Chlordane	< 2.76	ug/Kg		5/13/2021 16:38

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**166**	10 - 134	*	5/13/2021 16:38
Tetrachloro-m-xylene (1)	**89.7**	26.3 - 99.8		5/13/2021 16:38

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 5/12/2021

Semi-Volatile Organics (Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 319	ug/Kg		5/12/2021 20:33
1,2,4,5-Tetrachlorobenzene	< 319	ug/Kg		5/12/2021 20:33
1,2,4-Trichlorobenzene	< 319	ug/Kg		5/12/2021 20:33
1,2-Dichlorobenzene	< 319	ug/Kg		5/12/2021 20:33
1,3-Dichlorobenzene	< 319	ug/Kg		5/12/2021 20:33
1,4-Dichlorobenzene	< 319	ug/Kg		5/12/2021 20:33
2,2-Oxybis (1-chloropropane)	< 319	ug/Kg		5/12/2021 20:33
2,4-Dinitrotoluene	< 319	ug/Kg		5/12/2021 20:33
2,6-Dinitrotoluene	< 319	ug/Kg		5/12/2021 20:33
2-Chloronaphthalene	< 319	ug/Kg		5/12/2021 20:33
2-Methylnapthalene	< 319	ug/Kg		5/12/2021 20:33
2-Nitroaniline	< 319	ug/Kg		5/12/2021 20:33
3,3'-Dichlorobenzidine	< 319	ug/Kg		5/12/2021 20:33
3-Nitroaniline	< 319	ug/Kg		5/12/2021 20:33
4-Bromophenyl phenyl ether	< 319	ug/Kg		5/12/2021 20:33
4-Chloroaniline	< 319	ug/Kg		5/12/2021 20:33

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-34 (12.5-13 ft.)		
Lab Sample ID:	211960-04	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

4-Chlorophenyl phenyl ether	< 319	ug/Kg	5/12/2021	20:33
4-Nitroaniline	< 319	ug/Kg	5/12/2021	20:33
Acenaphthene	< 319	ug/Kg	5/12/2021	20:33
Acenaphthylene	< 319	ug/Kg	5/12/2021	20:33
Acetophenone	< 319	ug/Kg	5/12/2021	20:33
Anthracene	< 319	ug/Kg	5/12/2021	20:33
Atrazine	< 319	ug/Kg	5/12/2021	20:33
Benzaldehyde	< 319	ug/Kg	5/12/2021	20:33
Benzo (a) anthracene	**670**	ug/Kg	5/12/2021	20:33
Benzo (a) pyrene	**670**	ug/Kg	5/12/2021	20:33
Benzo (b) fluoranthene	**619**	ug/Kg	5/12/2021	20:33
Benzo (g,h,i) perylene	**439**	ug/Kg	5/12/2021	20:33
Benzo (k) fluoranthene	**419**	ug/Kg	5/12/2021	20:33
Bis (2-chloroethoxy) methane	< 319	ug/Kg	5/12/2021	20:33
Bis (2-chloroethyl) ether	< 319	ug/Kg	5/12/2021	20:33
Bis (2-ethylhexyl) phthalate	< 319	ug/Kg	5/12/2021	20:33
Butylbenzylphthalate	< 319	ug/Kg	5/12/2021	20:33
Caprolactam	< 319	ug/Kg	5/12/2021	20:33
Carbazole	< 319	ug/Kg	5/12/2021	20:33
Chrysene	**659**	ug/Kg	5/12/2021	20:33
Dibenz (a,h) anthracene	< 319	ug/Kg	5/12/2021	20:33
Dibenzofuran	< 319	ug/Kg	5/12/2021	20:33
Diethyl phthalate	< 319	ug/Kg	5/12/2021	20:33
Dimethyl phthalate	< 319	ug/Kg	5/12/2021	20:33
Di-n-butyl phthalate	< 319	ug/Kg	5/12/2021	20:33
Di-n-octylphthalate	< 319	ug/Kg	5/12/2021	20:33
Fluoranthene	**1410**	ug/Kg	5/12/2021	20:33
Fluorene	< 319	ug/Kg	5/12/2021	20:33
Hexachlorobenzene	< 319	ug/Kg	5/12/2021	20:33
Hexachlorobutadiene	< 319	ug/Kg	5/12/2021	20:33

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-34 (12.5-13 ft.)		
Lab Sample ID:	211960-04	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Hexachlorocyclopentadiene	< 1270	ug/Kg		5/12/2021 20:33
Hexachloroethane	< 319	ug/Kg		5/12/2021 20:33
Indeno (1,2,3-cd) pyrene	**485**	ug/Kg		5/12/2021 20:33
Isophorone	< 319	ug/Kg		5/12/2021 20:33
Naphthalene	< 319	ug/Kg		5/12/2021 20:33
Nitrobenzene	< 319	ug/Kg		5/12/2021 20:33
N-Nitroso-di-n-propylamine	< 319	ug/Kg		5/12/2021 20:33
N-Nitrosodiphenylamine	< 319	ug/Kg		5/12/2021 20:33
Phenanthrene	**675**	ug/Kg		5/12/2021 20:33
Pyrene	**1190**	ug/Kg		5/12/2021 20:33

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**72.3**	34.6 - 83.9		5/12/2021 20:33
Nitrobenzene-d5	**68.1**	32.4 - 76		5/12/2021 20:33
Terphenyl-d14	**80.3**	38.2 - 88.8		5/12/2021 20:33

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/11/2021
Data File: B54070.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 17.2	ug/Kg		5/12/2021 22:39
1,1,2,2-Tetrachloroethane	< 17.2	ug/Kg		5/12/2021 22:39
1,1,2-Trichloroethane	< 17.2	ug/Kg		5/12/2021 22:39
1,1-Dichloroethane	< 17.2	ug/Kg		5/12/2021 22:39
1,1-Dichloroethene	< 17.2	ug/Kg		5/12/2021 22:39
1,2,3-Trichlorobenzene	< 42.9	ug/Kg		5/12/2021 22:39
1,2,4-Trichlorobenzene	< 42.9	ug/Kg		5/12/2021 22:39
1,2-Dibromo-3-Chloropropane	< 85.8	ug/Kg		5/12/2021 22:39
1,2-Dibromoethane	< 17.2	ug/Kg		5/12/2021 22:39
1,2-Dichlorobenzene	< 17.2	ug/Kg		5/12/2021 22:39
1,2-Dichloroethane	< 17.2	ug/Kg		5/12/2021 22:39

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-34 (12.5-13 ft.)		
Lab Sample ID:	211960-04	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

1,2-Dichloropropane	< 17.2	ug/Kg	5/12/2021 22:39
1,3-Dichlorobenzene	< 17.2	ug/Kg	5/12/2021 22:39
1,4-Dichlorobenzene	< 17.2	ug/Kg	5/12/2021 22:39
1,4-Dioxane	< 85.8	ug/Kg	5/12/2021 22:39
2-Butanone	< 85.8	ug/Kg	5/12/2021 22:39
2-Hexanone	< 42.9	ug/Kg	5/12/2021 22:39
4-Methyl-2-pentanone	< 42.9	ug/Kg	5/12/2021 22:39
Acetone	**169**	ug/Kg	5/12/2021 22:39
Benzene	< 17.2	ug/Kg	5/12/2021 22:39
Bromochloromethane	< 42.9	ug/Kg	5/12/2021 22:39
Bromodichloromethane	< 17.2	ug/Kg	5/12/2021 22:39
Bromoform	< 42.9	ug/Kg	5/12/2021 22:39
Bromomethane	< 17.2	ug/Kg	5/12/2021 22:39
Carbon disulfide	< 17.2	ug/Kg	5/12/2021 22:39
Carbon Tetrachloride	< 17.2	ug/Kg	5/12/2021 22:39
Chlorobenzene	< 17.2	ug/Kg	5/12/2021 22:39
Chloroethane	< 17.2	ug/Kg	5/12/2021 22:39
Chloroform	< 17.2	ug/Kg	5/12/2021 22:39
Chloromethane	< 17.2	ug/Kg	5/12/2021 22:39
cis-1,2-Dichloroethene	< 17.2	ug/Kg	5/12/2021 22:39
cis-1,3-Dichloropropene	< 17.2	ug/Kg	5/12/2021 22:39
Cyclohexane	< 85.8	ug/Kg	5/12/2021 22:39
Dibromochloromethane	< 17.2	ug/Kg	5/12/2021 22:39
Dichlorodifluoromethane	< 17.2	ug/Kg	5/12/2021 22:39
Ethylbenzene	< 17.2	ug/Kg	5/12/2021 22:39
Freon 113	< 17.2	ug/Kg	5/12/2021 22:39
Isopropylbenzene	< 17.2	ug/Kg	5/12/2021 22:39
m,p-Xylene	< 17.2	ug/Kg	5/12/2021 22:39
Methyl acetate	< 17.2	ug/Kg	5/12/2021 22:39
Methyl tert-butyl Ether	< 17.2	ug/Kg	5/12/2021 22:39

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-34 (12.5-13 ft.)		
Lab Sample ID:	211960-04	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Methylcyclohexane	< 17.2	ug/Kg		5/12/2021 22:39
Methylene chloride	< 42.9	ug/Kg		5/12/2021 22:39
o-Xylene	< 17.2	ug/Kg		5/12/2021 22:39
Styrene	< 42.9	ug/Kg		5/12/2021 22:39
Tetrachloroethene	< 17.2	ug/Kg		5/12/2021 22:39
Toluene	< 17.2	ug/Kg		5/12/2021 22:39
trans-1,2-Dichloroethene	< 17.2	ug/Kg		5/12/2021 22:39
trans-1,3-Dichloropropene	< 17.2	ug/Kg		5/12/2021 22:39
Trichloroethene	< 17.2	ug/Kg		5/12/2021 22:39
Trichlorofluoromethane	< 17.2	ug/Kg		5/12/2021 22:39
Vinyl chloride	< 17.2	ug/Kg		5/12/2021 22:39

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**106**	52.5 - 151		5/12/2021 22:39
4-Bromofluorobenzene	**96.8**	37.7 - 146		5/12/2021 22:39
Pentafluorobenzene	**86.3**	92.1 - 115	*	5/12/2021 22:39
Toluene-D8	**105**	74 - 120		5/12/2021 22:39

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

Data File: z01555.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.

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.590	mg/Kg		5/12/2021

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 5/12/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-24 (18.0-18.5 ft.)		
Lab Sample ID:	211960-05	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-T	<341	ug/Kg		5/12/2021
2,4,5-TP (Silvex)	<341	ug/Kg		5/12/2021
2,4-D	<1360	ug/Kg		5/12/2021

Method Reference(s): EPA 8321B
Subcontractor ELAP ID: 10709

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.163**	mg/Kg		5/14/2021 10:13

Method Reference(s): EPA 7471B
Preparation Date: 5/13/2021
Data File: Hg210514C

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**3.11**	mg/Kg		5/12/2021 18:02
Barium	**47.9**	mg/Kg		5/12/2021 18:02
Cadmium	**0.713**	mg/Kg		5/12/2021 18:02
Chromium	**9.02**	mg/Kg		5/12/2021 18:02
Lead	**356**	mg/Kg		5/12/2021 18:02
Selenium	< 1.04	mg/Kg		5/13/2021 16:33
Silver	< 0.521	mg/Kg		5/12/2021 18:02

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/11/2021
Data File: 210512B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0321	mg/Kg		5/13/2021 16:52

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-24 (18.0-18.5 ft.)		
Lab Sample ID:	211960-05	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

PCB-1221	< 0.0321	mg/Kg		5/13/2021 16:52
PCB-1232	< 0.0321	mg/Kg		5/13/2021 16:52
PCB-1242	< 0.0321	mg/Kg		5/13/2021 16:52
PCB-1248	< 0.0321	mg/Kg		5/13/2021 16:52
PCB-1254	< 0.0321	mg/Kg		5/13/2021 16:52
PCB-1260	< 0.0321	mg/Kg		5/13/2021 16:52
PCB-1262	< 0.0321	mg/Kg		5/13/2021 16:52
PCB-1268	< 0.0321	mg/Kg		5/13/2021 16:52

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**61.5**	16.4 - 99.1		5/13/2021 16:52

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/12/2021

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**7.34**	ug/Kg	P	5/13/2021 16:55
4,4-DDE	**5.20**	ug/Kg		5/13/2021 16:55
4,4-DDT	< 3.21	ug/Kg		5/13/2021 16:55
Aldrin	< 3.21	ug/Kg		5/13/2021 16:55
alpha-BHC	< 3.21	ug/Kg		5/13/2021 16:55
beta-BHC	< 3.21	ug/Kg		5/13/2021 16:55
cis-Chlordane	**4.02**	ug/Kg		5/13/2021 16:55
delta-BHC	< 3.21	ug/Kg		5/13/2021 16:55
Dieldrin	**3.31**	ug/Kg		5/13/2021 16:55
Endosulfan I	< 3.21	ug/Kg		5/13/2021 16:55
Endosulfan II	< 3.21	ug/Kg		5/13/2021 16:55
Endosulfan Sulfate	< 3.21	ug/Kg		5/13/2021 16:55
Endrin	< 3.21	ug/Kg		5/13/2021 16:55
Endrin Aldehyde	< 3.21	ug/Kg		5/13/2021 16:55
Endrin Ketone	< 3.21	ug/Kg		5/13/2021 16:55

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-24 (18.0-18.5 ft.)		
Lab Sample ID:	211960-05	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

gamma-BHC (Lindane)	< 3.21	ug/Kg			5/13/2021 16:55
Heptachlor	< 3.21	ug/Kg			5/13/2021 16:55
Heptachlor Epoxide	< 3.21	ug/Kg			5/13/2021 16:55
Methoxychlor	**4.89**	ug/Kg		P	5/13/2021 16:55
Toxaphene	< 32.1	ug/Kg			5/13/2021 16:55
trans-Chlordane	**4.85**	ug/Kg			5/13/2021 16:55

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**99.1**	10 - 134		5/13/2021 16:55
Tetrachloro-m-xylene (1)	**77.8**	26.3 - 99.8		5/13/2021 16:55

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 5/12/2021

Semi-Volatile Organics (Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 314	ug/Kg		5/13/2021 00:24
1,2,4,5-Tetrachlorobenzene	< 314	ug/Kg		5/13/2021 00:24
1,2,4-Trichlorobenzene	< 314	ug/Kg		5/13/2021 00:24
1,2-Dichlorobenzene	< 314	ug/Kg		5/13/2021 00:24
1,3-Dichlorobenzene	< 314	ug/Kg		5/13/2021 00:24
1,4-Dichlorobenzene	< 314	ug/Kg		5/13/2021 00:24
2,2-Oxybis (1-chloropropane)	< 314	ug/Kg		5/13/2021 00:24
2,4-Dinitrotoluene	< 314	ug/Kg		5/13/2021 00:24
2,6-Dinitrotoluene	< 314	ug/Kg		5/13/2021 00:24
2-Chloronaphthalene	< 314	ug/Kg		5/13/2021 00:24
2-Methylnapthalene	< 314	ug/Kg		5/13/2021 00:24
2-Nitroaniline	< 314	ug/Kg		5/13/2021 00:24
3,3'-Dichlorobenzidine	< 314	ug/Kg		5/13/2021 00:24
3-Nitroaniline	< 314	ug/Kg		5/13/2021 00:24
4-Bromophenyl phenyl ether	< 314	ug/Kg		5/13/2021 00:24
4-Chloroaniline	< 314	ug/Kg		5/13/2021 00:24

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-24 (18.0-18.5 ft.)		
Lab Sample ID:	211960-05	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

4-Chlorophenyl phenyl ether	< 314	ug/Kg	5/13/2021	00:24
4-Nitroaniline	< 314	ug/Kg	5/13/2021	00:24
Acenaphthene	< 314	ug/Kg	5/13/2021	00:24
Acenaphthylene	< 314	ug/Kg	5/13/2021	00:24
Acetophenone	< 314	ug/Kg	5/13/2021	00:24
Anthracene	< 314	ug/Kg	5/13/2021	00:24
Atrazine	< 314	ug/Kg	5/13/2021	00:24
Benzaldehyde	< 314	ug/Kg	5/13/2021	00:24
Benzo (a) anthracene	**509**	ug/Kg	5/13/2021	00:24
Benzo (a) pyrene	**513**	ug/Kg	5/13/2021	00:24
Benzo (b) fluoranthene	**424**	ug/Kg	5/13/2021	00:24
Benzo (g,h,i) perylene	**369**	ug/Kg	5/13/2021	00:24
Benzo (k) fluoranthene	**385**	ug/Kg	5/13/2021	00:24
Bis (2-chloroethoxy) methane	< 314	ug/Kg	5/13/2021	00:24
Bis (2-chloroethyl) ether	< 314	ug/Kg	5/13/2021	00:24
Bis (2-ethylhexyl) phthalate	< 314	ug/Kg	5/13/2021	00:24
Butylbenzylphthalate	< 314	ug/Kg	5/13/2021	00:24
Caprolactam	< 314	ug/Kg	5/13/2021	00:24
Carbazole	< 314	ug/Kg	5/13/2021	00:24
Chrysene	**531**	ug/Kg	5/13/2021	00:24
Dibenz (a,h) anthracene	< 314	ug/Kg	5/13/2021	00:24
Dibenzofuran	< 314	ug/Kg	5/13/2021	00:24
Diethyl phthalate	< 314	ug/Kg	5/13/2021	00:24
Dimethyl phthalate	< 314	ug/Kg	5/13/2021	00:24
Di-n-butyl phthalate	< 314	ug/Kg	5/13/2021	00:24
Di-n-octylphthalate	< 314	ug/Kg	5/13/2021	00:24
Fluoranthene	**1160**	ug/Kg	5/13/2021	00:24
Fluorene	< 314	ug/Kg	5/13/2021	00:24
Hexachlorobenzene	< 314	ug/Kg	5/13/2021	00:24
Hexachlorobutadiene	< 314	ug/Kg	5/13/2021	00:24

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-24 (18.0-18.5 ft.)		
Lab Sample ID:	211960-05	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Hexachlorocyclopentadiene	< 1250	ug/Kg		5/13/2021 00:24
Hexachloroethane	< 314	ug/Kg		5/13/2021 00:24
Indeno (1,2,3-cd) pyrene	**385**	ug/Kg		5/13/2021 00:24
Isophorone	< 314	ug/Kg		5/13/2021 00:24
Naphthalene	< 314	ug/Kg		5/13/2021 00:24
Nitrobenzene	< 314	ug/Kg		5/13/2021 00:24
N-Nitroso-di-n-propylamine	< 314	ug/Kg		5/13/2021 00:24
N-Nitrosodiphenylamine	< 314	ug/Kg		5/13/2021 00:24
Phenanthrene	**523**	ug/Kg		5/13/2021 00:24
Pyrene	**990**	ug/Kg		5/13/2021 00:24

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**72.2**	34.6 - 83.9		5/13/2021 00:24
Nitrobenzene-d5	**67.1**	32.4 - 76		5/13/2021 00:24
Terphenyl-d14	**80.3**	38.2 - 88.8		5/13/2021 00:24

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/11/2021
Data File: B54078.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.87	ug/Kg		5/11/2021 16:16
1,1,2,2-Tetrachloroethane	< 8.87	ug/Kg		5/11/2021 16:16
1,1,2-Trichloroethane	< 8.87	ug/Kg		5/11/2021 16:16
1,1-Dichloroethane	< 8.87	ug/Kg		5/11/2021 16:16
1,1-Dichloroethene	< 8.87	ug/Kg		5/11/2021 16:16
1,2,3-Trichlorobenzene	< 22.2	ug/Kg		5/11/2021 16:16
1,2,4-Trichlorobenzene	< 22.2	ug/Kg		5/11/2021 16:16
1,2-Dibromo-3-Chloropropane	< 44.3	ug/Kg		5/11/2021 16:16
1,2-Dibromoethane	< 8.87	ug/Kg		5/11/2021 16:16
1,2-Dichlorobenzene	< 8.87	ug/Kg		5/11/2021 16:16
1,2-Dichloroethane	< 8.87	ug/Kg		5/11/2021 16:16

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-24 (18.0-18.5 ft.)		
Lab Sample ID:	211960-05	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

1,2-Dichloropropane	< 8.87	ug/Kg	5/11/2021 16:16
1,3-Dichlorobenzene	< 8.87	ug/Kg	5/11/2021 16:16
1,4-Dichlorobenzene	< 8.87	ug/Kg	5/11/2021 16:16
1,4-Dioxane	< 44.3	ug/Kg	5/11/2021 16:16
2-Butanone	< 44.3	ug/Kg	5/11/2021 16:16
2-Hexanone	< 22.2	ug/Kg	5/11/2021 16:16
4-Methyl-2-pentanone	< 22.2	ug/Kg	5/11/2021 16:16
Acetone	< 44.3	ug/Kg	5/11/2021 16:16
Benzene	< 8.87	ug/Kg	5/11/2021 16:16
Bromochloromethane	< 22.2	ug/Kg	5/11/2021 16:16
Bromodichloromethane	< 8.87	ug/Kg	5/11/2021 16:16
Bromoform	< 22.2	ug/Kg	5/11/2021 16:16
Bromomethane	< 8.87	ug/Kg	5/11/2021 16:16
Carbon disulfide	< 8.87	ug/Kg	5/11/2021 16:16
Carbon Tetrachloride	< 8.87	ug/Kg	5/11/2021 16:16
Chlorobenzene	< 8.87	ug/Kg	5/11/2021 16:16
Chloroethane	< 8.87	ug/Kg	5/11/2021 16:16
Chloroform	< 8.87	ug/Kg	5/11/2021 16:16
Chloromethane	< 8.87	ug/Kg	5/11/2021 16:16
cis-1,2-Dichloroethene	< 8.87	ug/Kg	5/11/2021 16:16
cis-1,3-Dichloropropene	< 8.87	ug/Kg	5/11/2021 16:16
Cyclohexane	< 44.3	ug/Kg	5/11/2021 16:16
Dibromochloromethane	< 8.87	ug/Kg	5/11/2021 16:16
Dichlorodifluoromethane	< 8.87	ug/Kg	5/11/2021 16:16
Ethylbenzene	< 8.87	ug/Kg	5/11/2021 16:16
Freon 113	< 8.87	ug/Kg	5/11/2021 16:16
Isopropylbenzene	< 8.87	ug/Kg	5/11/2021 16:16
m,p-Xylene	< 8.87	ug/Kg	5/11/2021 16:16
Methyl acetate	< 8.87	ug/Kg	5/11/2021 16:16
Methyl tert-butyl Ether	< 8.87	ug/Kg	5/11/2021 16:16

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-24 (18.0-18.5 ft.)		
Lab Sample ID:	211960-05	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Methylcyclohexane	< 8.87	ug/Kg		5/11/2021 16:16
Methylene chloride	< 22.2	ug/Kg		5/11/2021 16:16
o-Xylene	< 8.87	ug/Kg		5/11/2021 16:16
Styrene	< 22.2	ug/Kg		5/11/2021 16:16
Tetrachloroethene	< 8.87	ug/Kg		5/11/2021 16:16
Toluene	< 8.87	ug/Kg		5/11/2021 16:16
trans-1,2-Dichloroethene	< 8.87	ug/Kg		5/11/2021 16:16
trans-1,3-Dichloropropene	< 8.87	ug/Kg		5/11/2021 16:16
Trichloroethene	< 8.87	ug/Kg		5/11/2021 16:16
Trichlorofluoromethane	< 8.87	ug/Kg		5/11/2021 16:16
Vinyl chloride	< 8.87	ug/Kg		5/11/2021 16:16

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**101**	52.5 - 151		5/11/2021 16:16
4-Bromofluorobenzene	**106**	37.7 - 146		5/11/2021 16:16
Pentafluorobenzene	**97.1**	92.1 - 115		5/11/2021 16:16
Toluene-D8	**108**	74 - 120		5/11/2021 16:16

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

Data File: z01499.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.

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.477	mg/Kg		5/14/2021

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 5/13/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-25 (3.0-3.5 ft.)		
Lab Sample ID:	211960-06	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-T	<336	ug/Kg		5/13/2021
2,4,5-TP (Silvex)	<336	ug/Kg		5/13/2021
2,4-D	<1340	ug/Kg		5/13/2021

Method Reference(s): EPA 8321B
Subcontractor ELAP ID: 10709

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0476**	mg/Kg		5/14/2021 10:14

Method Reference(s): EPA 7471B
Preparation Date: 5/13/2021
Data File: Hg210514C

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**4.46**	mg/Kg		5/12/2021 18:06
Barium	**45.2**	mg/Kg		5/12/2021 18:06
Cadmium	**0.764**	mg/Kg		5/12/2021 18:06
Chromium	**9.10**	mg/Kg		5/12/2021 18:06
Lead	**30.0**	mg/Kg		5/12/2021 18:06
Selenium	< 1.07	mg/Kg		5/12/2021 18:06
Silver	< 0.533	mg/Kg		5/12/2021 18:06

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/11/2021
Data File: 210512B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0274	mg/Kg		5/13/2021 17:15

Sample Identifier:	TP21-25 (3.0-3.5 ft.)		
Lab Sample ID:	211960-06	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

PCB-1221	< 0.0274	mg/Kg		5/13/2021 17:15
PCB-1232	< 0.0274	mg/Kg		5/13/2021 17:15
PCB-1242	< 0.0274	mg/Kg		5/13/2021 17:15
PCB-1248	< 0.0274	mg/Kg		5/13/2021 17:15
PCB-1254	< 0.0274	mg/Kg		5/13/2021 17:15
PCB-1260	< 0.0274	mg/Kg		5/13/2021 17:15
PCB-1262	< 0.0274	mg/Kg		5/13/2021 17:15
PCB-1268	< 0.0274	mg/Kg		5/13/2021 17:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**60.3**	16.4 - 99.1		5/13/2021 17:15

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/12/2021

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 2.74	ug/Kg		5/13/2021 17:11
4,4-DDE	< 2.74	ug/Kg		5/13/2021 17:11
4,4-DDT	< 2.74	ug/Kg		5/13/2021 17:11
Aldrin	< 2.74	ug/Kg		5/13/2021 17:11
alpha-BHC	< 2.74	ug/Kg		5/13/2021 17:11
beta-BHC	< 2.74	ug/Kg		5/13/2021 17:11
cis-Chlordane	< 2.74	ug/Kg		5/13/2021 17:11
delta-BHC	< 2.74	ug/Kg		5/13/2021 17:11
Dieldrin	< 2.74	ug/Kg		5/13/2021 17:11
Endosulfan I	< 2.74	ug/Kg		5/13/2021 17:11
Endosulfan II	< 2.74	ug/Kg		5/13/2021 17:11
Endosulfan Sulfate	**3.98**	ug/Kg	P	5/13/2021 17:11
Endrin	< 2.74	ug/Kg		5/13/2021 17:11
Endrin Aldehyde	< 2.74	ug/Kg		5/13/2021 17:11
Endrin Ketone	< 2.74	ug/Kg		5/13/2021 17:11

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-25 (3.0-3.5 ft.)		
Lab Sample ID:	211960-06	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

gamma-BHC (Lindane)	< 2.74	ug/Kg			5/13/2021 17:11
Heptachlor	< 2.74	ug/Kg			5/13/2021 17:11
Heptachlor Epoxide	< 2.74	ug/Kg			5/13/2021 17:11
Methoxychlor	**3.55**	ug/Kg		P	5/13/2021 17:11
Toxaphene	< 27.4	ug/Kg			5/13/2021 17:11
trans-Chlordane	< 2.74	ug/Kg			5/13/2021 17:11

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
Decachlorobiphenyl (1)	**152**	10 - 134	*	5/13/2021 17:11
Tetrachloro-m-xylene (1)	**74.9**	26.3 - 99.8		5/13/2021 17:11

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 5/12/2021

Semi-Volatile Organics (Base Neutrals)

Analyte	**Result**	**Units**	**Qualifier**	**Date Analyzed**
1,1-Biphenyl	< 296	ug/Kg		5/13/2021 00:53
1,2,4,5-Tetrachlorobenzene	< 296	ug/Kg		5/13/2021 00:53
1,2,4-Trichlorobenzene	< 296	ug/Kg		5/13/2021 00:53
1,2-Dichlorobenzene	< 296	ug/Kg		5/13/2021 00:53
1,3-Dichlorobenzene	< 296	ug/Kg		5/13/2021 00:53
1,4-Dichlorobenzene	< 296	ug/Kg		5/13/2021 00:53
2,2-Oxybis (1-chloropropane)	< 296	ug/Kg		5/13/2021 00:53
2,4-Dinitrotoluene	< 296	ug/Kg		5/13/2021 00:53
2,6-Dinitrotoluene	< 296	ug/Kg		5/13/2021 00:53
2-Chloronaphthalene	< 296	ug/Kg		5/13/2021 00:53
2-Methylnapthalene	< 296	ug/Kg		5/13/2021 00:53
2-Nitroaniline	< 296	ug/Kg		5/13/2021 00:53
3,3'-Dichlorobenzidine	< 296	ug/Kg		5/13/2021 00:53
3-Nitroaniline	< 296	ug/Kg		5/13/2021 00:53
4-Bromophenyl phenyl ether	< 296	ug/Kg		5/13/2021 00:53
4-Chloroaniline	< 296	ug/Kg		5/13/2021 00:53

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-25 (3.0-3.5 ft.)		
Lab Sample ID:	211960-06	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

4-Chlorophenyl phenyl ether	< 296	ug/Kg	5/13/2021 00:53
4-Nitroaniline	< 296	ug/Kg	5/13/2021 00:53
Acenaphthene	< 296	ug/Kg	5/13/2021 00:53
Acenaphthylene	< 296	ug/Kg	5/13/2021 00:53
Acetophenone	< 296	ug/Kg	5/13/2021 00:53
Anthracene	< 296	ug/Kg	5/13/2021 00:53
Atrazine	< 296	ug/Kg	5/13/2021 00:53
Benzaldehyde	< 296	ug/Kg	5/13/2021 00:53
Benzo (a) anthracene	**676**	ug/Kg	5/13/2021 00:53
Benzo (a) pyrene	**750**	ug/Kg	5/13/2021 00:53
Benzo (b) fluoranthene	**693**	ug/Kg	5/13/2021 00:53
Benzo (g,h,i) perylene	**521**	ug/Kg	5/13/2021 00:53
Benzo (k) fluoranthene	**465**	ug/Kg	5/13/2021 00:53
Bis (2-chloroethoxy) methane	< 296	ug/Kg	5/13/2021 00:53
Bis (2-chloroethyl) ether	< 296	ug/Kg	5/13/2021 00:53
Bis (2-ethylhexyl) phthalate	< 296	ug/Kg	5/13/2021 00:53
Butylbenzylphthalate	< 296	ug/Kg	5/13/2021 00:53
Caprolactam	< 296	ug/Kg	5/13/2021 00:53
Carbazole	< 296	ug/Kg	5/13/2021 00:53
Chrysene	**620**	ug/Kg	5/13/2021 00:53
Dibenz (a,h) anthracene	< 296	ug/Kg	5/13/2021 00:53
Dibenzofuran	< 296	ug/Kg	5/13/2021 00:53
Diethyl phthalate	< 296	ug/Kg	5/13/2021 00:53
Dimethyl phthalate	< 296	ug/Kg	5/13/2021 00:53
Di-n-butyl phthalate	< 296	ug/Kg	5/13/2021 00:53
Di-n-octylphthalate	< 296	ug/Kg	5/13/2021 00:53
Fluoranthene	**1220**	ug/Kg	5/13/2021 00:53
Fluorene	< 296	ug/Kg	5/13/2021 00:53
Hexachlorobenzene	< 296	ug/Kg	5/13/2021 00:53
Hexachlorobutadiene	< 296	ug/Kg	5/13/2021 00:53

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-25 (3.0-3.5 ft.)		
Lab Sample ID:	211960-06	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Hexachlorocyclopentadiene	< 1180	ug/Kg		5/13/2021 00:53
Hexachloroethane	< 296	ug/Kg		5/13/2021 00:53
Indeno (1,2,3-cd) pyrene	**595**	ug/Kg		5/13/2021 00:53
Isophorone	< 296	ug/Kg		5/13/2021 00:53
Naphthalene	< 296	ug/Kg		5/13/2021 00:53
Nitrobenzene	< 296	ug/Kg		5/13/2021 00:53
N-Nitroso-di-n-propylamine	< 296	ug/Kg		5/13/2021 00:53
N-Nitrosodiphenylamine	< 296	ug/Kg		5/13/2021 00:53
Phenanthrene	**499**	ug/Kg		5/13/2021 00:53
Pyrene	**1070**	ug/Kg		5/13/2021 00:53

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**74.3**	34.6 - 83.9		5/13/2021 00:53
Nitrobenzene-d5	**70.6**	32.4 - 76		5/13/2021 00:53
Terphenyl-d14	**85.0**	38.2 - 88.8		5/13/2021 00:53

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/11/2021
Data File: B54079.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 7.93	ug/Kg		5/11/2021 16:36
1,1,2,2-Tetrachloroethane	< 7.93	ug/Kg		5/11/2021 16:36
1,1,2-Trichloroethane	< 7.93	ug/Kg		5/11/2021 16:36
1,1-Dichloroethane	< 7.93	ug/Kg		5/11/2021 16:36
1,1-Dichloroethene	< 7.93	ug/Kg		5/11/2021 16:36
1,2,3-Trichlorobenzene	< 19.8	ug/Kg		5/11/2021 16:36
1,2,4-Trichlorobenzene	< 19.8	ug/Kg		5/11/2021 16:36
1,2-Dibromo-3-Chloropropane	< 39.7	ug/Kg		5/11/2021 16:36
1,2-Dibromoethane	< 7.93	ug/Kg		5/11/2021 16:36
1,2-Dichlorobenzene	< 7.93	ug/Kg		5/11/2021 16:36
1,2-Dichloroethane	< 7.93	ug/Kg		5/11/2021 16:36

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-25 (3.0-3.5 ft.)		
Lab Sample ID:	211960-06	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

1,2-Dichloropropane	< 7.93	ug/Kg	5/11/2021 16:36
1,3-Dichlorobenzene	< 7.93	ug/Kg	5/11/2021 16:36
1,4-Dichlorobenzene	< 7.93	ug/Kg	5/11/2021 16:36
1,4-Dioxane	< 39.7	ug/Kg	5/11/2021 16:36
2-Butanone	< 39.7	ug/Kg	5/11/2021 16:36
2-Hexanone	< 19.8	ug/Kg	5/11/2021 16:36
4-Methyl-2-pentanone	< 19.8	ug/Kg	5/11/2021 16:36
Acetone	< 39.7	ug/Kg	5/11/2021 16:36
Benzene	< 7.93	ug/Kg	5/11/2021 16:36
Bromochloromethane	< 19.8	ug/Kg	5/11/2021 16:36
Bromodichloromethane	< 7.93	ug/Kg	5/11/2021 16:36
Bromoform	< 19.8	ug/Kg	5/11/2021 16:36
Bromomethane	< 7.93	ug/Kg	5/11/2021 16:36
Carbon disulfide	< 7.93	ug/Kg	5/11/2021 16:36
Carbon Tetrachloride	< 7.93	ug/Kg	5/11/2021 16:36
Chlorobenzene	< 7.93	ug/Kg	5/11/2021 16:36
Chloroethane	< 7.93	ug/Kg	5/11/2021 16:36
Chloroform	< 7.93	ug/Kg	5/11/2021 16:36
Chloromethane	< 7.93	ug/Kg	5/11/2021 16:36
cis-1,2-Dichloroethene	< 7.93	ug/Kg	5/11/2021 16:36
cis-1,3-Dichloropropene	< 7.93	ug/Kg	5/11/2021 16:36
Cyclohexane	< 39.7	ug/Kg	5/11/2021 16:36
Dibromochloromethane	< 7.93	ug/Kg	5/11/2021 16:36
Dichlorodifluoromethane	< 7.93	ug/Kg	5/11/2021 16:36
Ethylbenzene	< 7.93	ug/Kg	5/11/2021 16:36
Freon 113	< 7.93	ug/Kg	5/11/2021 16:36
Isopropylbenzene	< 7.93	ug/Kg	5/11/2021 16:36
m,p-Xylene	< 7.93	ug/Kg	5/11/2021 16:36
Methyl acetate	< 7.93	ug/Kg	5/11/2021 16:36
Methyl tert-butyl Ether	< 7.93	ug/Kg	5/11/2021 16:36

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-25 (3.0-3.5 ft.)		
Lab Sample ID:	211960-06	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Methylcyclohexane	< 7.93	ug/Kg		5/11/2021 16:36
Methylene chloride	< 19.8	ug/Kg		5/11/2021 16:36
o-Xylene	< 7.93	ug/Kg		5/11/2021 16:36
Styrene	< 19.8	ug/Kg		5/11/2021 16:36
Tetrachloroethene	< 7.93	ug/Kg		5/11/2021 16:36
Toluene	< 7.93	ug/Kg		5/11/2021 16:36
trans-1,2-Dichloroethene	< 7.93	ug/Kg		5/11/2021 16:36
trans-1,3-Dichloropropene	< 7.93	ug/Kg		5/11/2021 16:36
Trichloroethene	< 7.93	ug/Kg		5/11/2021 16:36
Trichlorofluoromethane	< 7.93	ug/Kg		5/11/2021 16:36
Vinyl chloride	< 7.93	ug/Kg		5/11/2021 16:36

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**99.6**	52.5 - 151		5/11/2021 16:36
4-Bromofluorobenzene	**99.7**	37.7 - 146		5/11/2021 16:36
Pentafluorobenzene	**93.0**	92.1 - 115		5/11/2021 16:36
Toluene-D8	**94.5**	74 - 120		5/11/2021 16:36

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

Data File: z01500.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.

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.518	mg/Kg		5/14/2021

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 5/13/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-28 (5.0-5.5 ft.)		
Lab Sample ID:	211960-07	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-T	<326	ug/Kg		5/13/2021
2,4,5-TP (Silvex)	<326	ug/Kg		5/13/2021
2,4-D	<1300	ug/Kg		5/13/2021

Surrogate outliers indicate matrix effects.

Method Reference(s): EPA 8321B
Subcontractor ELAP ID: 10709

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0798**	mg/Kg		5/14/2021 10:16

Method Reference(s): EPA 7471B
Preparation Date: 5/13/2021
Data File: Hg210514C

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**3.47**	mg/Kg		5/12/2021 18:11
Barium	**36.0**	mg/Kg		5/12/2021 18:11
Cadmium	**0.551**	mg/Kg		5/12/2021 18:11
Chromium	**8.47**	mg/Kg		5/12/2021 18:11
Lead	**79.9**	mg/Kg		5/12/2021 18:11
Selenium	< 1.03	mg/Kg		5/13/2021 16:37
Silver	< 0.517	mg/Kg		5/12/2021 18:11

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/11/2021
Data File: 210512B

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-28 (5.0-5.5 ft.)		
Lab Sample ID:	211960-07	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0303	mg/Kg		5/13/2021 17:39
PCB-1221	< 0.0303	mg/Kg		5/13/2021 17:39
PCB-1232	< 0.0303	mg/Kg		5/13/2021 17:39
PCB-1242	**0.0681**	mg/Kg		5/13/2021 17:39
PCB-1248	< 0.0303	mg/Kg		5/13/2021 17:39
PCB-1254	< 0.0303	mg/Kg		5/13/2021 17:39
PCB-1260	< 0.0303	mg/Kg		5/13/2021 17:39
PCB-1262	< 0.0303	mg/Kg		5/13/2021 17:39
PCB-1268	< 0.0303	mg/Kg		5/13/2021 17:39

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**70.5**	16.4 - 99.1		5/13/2021 17:39

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/12/2021

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**15.1**	ug/Kg		5/13/2021 17:28
4,4-DDE	< 3.03	ug/Kg		5/13/2021 17:28
4,4-DDT	**3.36**	ug/Kg	P	5/13/2021 17:28
Aldrin	< 3.03	ug/Kg		5/13/2021 17:28
alpha-BHC	< 3.03	ug/Kg		5/13/2021 17:28
beta-BHC	< 3.03	ug/Kg		5/13/2021 17:28
cis-Chlordane	**4.72**	ug/Kg	P	5/13/2021 17:28
delta-BHC	< 3.03	ug/Kg		5/13/2021 17:28
Dieldrin	**10.4**	ug/Kg		5/13/2021 17:28
Endosulfan I	< 3.03	ug/Kg		5/13/2021 17:28
Endosulfan II	< 3.03	ug/Kg		5/13/2021 17:28
Endosulfan Sulfate	< 3.03	ug/Kg		5/13/2021 17:28

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-28 (5.0-5.5 ft.)		
Lab Sample ID:	211960-07	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Endrin	< 3.03	ug/Kg		5/13/2021 17:28
Endrin Aldehyde	< 3.03	ug/Kg		5/13/2021 17:28
Endrin Ketone	< 3.03	ug/Kg		5/13/2021 17:28
gamma-BHC (Lindane)	< 3.03	ug/Kg		5/13/2021 17:28
Heptachlor	< 3.03	ug/Kg		5/13/2021 17:28
Heptachlor Epoxide	< 3.03	ug/Kg		5/13/2021 17:28
Methoxychlor	**4.54**	ug/Kg		5/13/2021 17:28
Toxaphene	< 30.3	ug/Kg		5/13/2021 17:28
trans-Chlordane	**6.41**	ug/Kg		5/13/2021 17:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**99.6**	10 - 134		5/13/2021 17:28
Tetrachloro-m-xylene (1)	**76.7**	26.3 - 99.8		5/13/2021 17:28

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 5/12/2021

Semi-Volatile Organics (Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 305	ug/Kg		5/13/2021 01:22
1,2,4,5-Tetrachlorobenzene	< 305	ug/Kg		5/13/2021 01:22
1,2,4-Trichlorobenzene	< 305	ug/Kg		5/13/2021 01:22
1,2-Dichlorobenzene	< 305	ug/Kg		5/13/2021 01:22
1,3-Dichlorobenzene	< 305	ug/Kg		5/13/2021 01:22
1,4-Dichlorobenzene	< 305	ug/Kg		5/13/2021 01:22
2,2-Oxybis (1-chloropropane)	< 305	ug/Kg		5/13/2021 01:22
2,4-Dinitrotoluene	< 305	ug/Kg		5/13/2021 01:22
2,6-Dinitrotoluene	< 305	ug/Kg		5/13/2021 01:22
2-Chloronaphthalene	< 305	ug/Kg		5/13/2021 01:22
2-Methylnapthalene	< 305	ug/Kg		5/13/2021 01:22
2-Nitroaniline	< 305	ug/Kg		5/13/2021 01:22
3,3'-Dichlorobenzidine	< 305	ug/Kg		5/13/2021 01:22

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-28 (5.0-5.5 ft.)		
Lab Sample ID:	211960-07	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

3-Nitroaniline	< 305	ug/Kg	5/13/2021 01:22
4-Bromophenyl phenyl ether	< 305	ug/Kg	5/13/2021 01:22
4-Chloroaniline	< 305	ug/Kg	5/13/2021 01:22
4-Chlorophenyl phenyl ether	< 305	ug/Kg	5/13/2021 01:22
4-Nitroaniline	< 305	ug/Kg	5/13/2021 01:22
Acenaphthene	< 305	ug/Kg	5/13/2021 01:22
Acenaphthylene	< 305	ug/Kg	5/13/2021 01:22
Acetophenone	< 305	ug/Kg	5/13/2021 01:22
Anthracene	< 305	ug/Kg	5/13/2021 01:22
Atrazine	< 305	ug/Kg	5/13/2021 01:22
Benzaldehyde	< 305	ug/Kg	5/13/2021 01:22
Benzo (a) anthracene	**523**	ug/Kg	5/13/2021 01:22
Benzo (a) pyrene	**494**	ug/Kg	5/13/2021 01:22
Benzo (b) fluoranthene	**320**	ug/Kg	5/13/2021 01:22
Benzo (g,h,i) perylene	**305**	ug/Kg	5/13/2021 01:22
Benzo (k) fluoranthene	**360**	ug/Kg	5/13/2021 01:22
Bis (2-chloroethoxy) methane	< 305	ug/Kg	5/13/2021 01:22
Bis (2-chloroethyl) ether	< 305	ug/Kg	5/13/2021 01:22
Bis (2-ethylhexyl) phthalate	< 305	ug/Kg	5/13/2021 01:22
Butylbenzylphthalate	< 305	ug/Kg	5/13/2021 01:22
Caprolactam	< 305	ug/Kg	5/13/2021 01:22
Carbazole	< 305	ug/Kg	5/13/2021 01:22
Chrysene	**472**	ug/Kg	5/13/2021 01:22
Dibenz (a,h) anthracene	< 305	ug/Kg	5/13/2021 01:22
Dibenzofuran	< 305	ug/Kg	5/13/2021 01:22
Diethyl phthalate	< 305	ug/Kg	5/13/2021 01:22
Dimethyl phthalate	< 305	ug/Kg	5/13/2021 01:22
Di-n-butyl phthalate	< 305	ug/Kg	5/13/2021 01:22
Di-n-octylphthalate	< 305	ug/Kg	5/13/2021 01:22
Fluoranthene	**1240**	ug/Kg	5/13/2021 01:22

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-28 (5.0-5.5 ft.)		
Lab Sample ID:	211960-07	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Fluorene	< 305	ug/Kg		5/13/2021 01:22
Hexachlorobenzene	< 305	ug/Kg		5/13/2021 01:22
Hexachlorobutadiene	< 305	ug/Kg		5/13/2021 01:22
Hexachlorocyclopentadiene	< 1220	ug/Kg		5/13/2021 01:22
Hexachloroethane	< 305	ug/Kg		5/13/2021 01:22
Indeno (1,2,3-cd) pyrene	**340**	ug/Kg		5/13/2021 01:22
Isophorone	< 305	ug/Kg		5/13/2021 01:22
Naphthalene	< 305	ug/Kg		5/13/2021 01:22
Nitrobenzene	< 305	ug/Kg		5/13/2021 01:22
N-Nitroso-di-n-propylamine	< 305	ug/Kg		5/13/2021 01:22
N-Nitrosodiphenylamine	< 305	ug/Kg		5/13/2021 01:22
Phenanthrene	**822**	ug/Kg		5/13/2021 01:22
Pyrene	**1090**	ug/Kg		5/13/2021 01:22

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**50.0**	34.6 - 83.9		5/13/2021 01:22
Nitrobenzene-d5	**49.5**	32.4 - 76		5/13/2021 01:22
Terphenyl-d14	**53.4**	38.2 - 88.8		5/13/2021 01:22

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/11/2021
Data File: B54080.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.10	ug/Kg		5/11/2021 16:55
1,1,2,2-Tetrachloroethane	< 8.10	ug/Kg		5/11/2021 16:55
1,1,2-Trichloroethane	< 8.10	ug/Kg		5/11/2021 16:55
1,1-Dichloroethane	< 8.10	ug/Kg		5/11/2021 16:55
1,1-Dichloroethene	< 8.10	ug/Kg		5/11/2021 16:55
1,2,3-Trichlorobenzene	< 20.3	ug/Kg		5/11/2021 16:55
1,2,4-Trichlorobenzene	< 20.3	ug/Kg		5/11/2021 16:55
1,2-Dibromo-3-Chloropropane	< 40.5	ug/Kg		5/11/2021 16:55

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-28 (5.0-5.5 ft.)		
Lab Sample ID:	211960-07	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

1,2-Dibromoethane	< 8.10	ug/Kg	5/11/2021 16:55
1,2-Dichlorobenzene	< 8.10	ug/Kg	5/11/2021 16:55
1,2-Dichloroethane	< 8.10	ug/Kg	5/11/2021 16:55
1,2-Dichloropropane	< 8.10	ug/Kg	5/11/2021 16:55
1,3-Dichlorobenzene	< 8.10	ug/Kg	5/11/2021 16:55
1,4-Dichlorobenzene	< 8.10	ug/Kg	5/11/2021 16:55
1,4-Dioxane	< 40.5	ug/Kg	5/11/2021 16:55
2-Butanone	< 40.5	ug/Kg	5/11/2021 16:55
2-Hexanone	< 20.3	ug/Kg	5/11/2021 16:55
4-Methyl-2-pentanone	< 20.3	ug/Kg	5/11/2021 16:55
Acetone	**92.0**	ug/Kg	5/11/2021 16:55
Benzene	< 8.10	ug/Kg	5/11/2021 16:55
Bromochloromethane	< 20.3	ug/Kg	5/11/2021 16:55
Bromodichloromethane	< 8.10	ug/Kg	5/11/2021 16:55
Bromoform	< 20.3	ug/Kg	5/11/2021 16:55
Bromomethane	< 8.10	ug/Kg	5/11/2021 16:55
Carbon disulfide	< 8.10	ug/Kg	5/11/2021 16:55
Carbon Tetrachloride	< 8.10	ug/Kg	5/11/2021 16:55
Chlorobenzene	< 8.10	ug/Kg	5/11/2021 16:55
Chloroethane	< 8.10	ug/Kg	5/11/2021 16:55
Chloroform	< 8.10	ug/Kg	5/11/2021 16:55
Chloromethane	< 8.10	ug/Kg	5/11/2021 16:55
cis-1,2-Dichloroethene	< 8.10	ug/Kg	5/11/2021 16:55
cis-1,3-Dichloropropene	< 8.10	ug/Kg	5/11/2021 16:55
Cyclohexane	< 40.5	ug/Kg	5/11/2021 16:55
Dibromochloromethane	< 8.10	ug/Kg	5/11/2021 16:55
Dichlorodifluoromethane	< 8.10	ug/Kg	5/11/2021 16:55
Ethylbenzene	< 8.10	ug/Kg	5/11/2021 16:55
Freon 113	< 8.10	ug/Kg	5/11/2021 16:55
Isopropylbenzene	< 8.10	ug/Kg	5/11/2021 16:55

Sample Identifier: TP21-28 (5.0-5.5 ft.)
Lab Sample ID: 211960-07 **Date Sampled:** 5/7/2021
Matrix: Soil **Date Received:** 5/10/2021

m,p-Xylene	< 8.10	ug/Kg		5/11/2021 16:55
Methyl acetate	< 8.10	ug/Kg		5/11/2021 16:55
Methyl tert-butyl Ether	< 8.10	ug/Kg		5/11/2021 16:55
Methylcyclohexane	< 8.10	ug/Kg		5/11/2021 16:55
Methylene chloride	< 20.3	ug/Kg		5/11/2021 16:55
o-Xylene	< 8.10	ug/Kg		5/11/2021 16:55
Styrene	< 20.3	ug/Kg		5/11/2021 16:55
Tetrachloroethene	< 8.10	ug/Kg		5/11/2021 16:55
Toluene	< 8.10	ug/Kg		5/11/2021 16:55
trans-1,2-Dichloroethene	< 8.10	ug/Kg		5/11/2021 16:55
trans-1,3-Dichloropropene	< 8.10	ug/Kg		5/11/2021 16:55
Trichloroethene	< 8.10	ug/Kg		5/11/2021 16:55
Trichlorofluoromethane	< 8.10	ug/Kg		5/11/2021 16:55
Vinyl chloride	< 8.10	ug/Kg		5/11/2021 16:55

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**98.9**	52.5 - 151		5/11/2021 16:55
4-Bromofluorobenzene	**89.1**	37.7 - 146		5/11/2021 16:55
Pentafluorobenzene	**88.9**	92.1 - 115	*	5/11/2021 16:55
Toluene-D8	**91.7**	74 - 120		5/11/2021 16:55

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: z01501.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.

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.380	mg/Kg		5/14/2021

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 5/13/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-40 (3.5-4.0 ft.)		
Lab Sample ID:	211960-08	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-T	<365	ug/Kg		5/13/2021
2,4,5-TP (Silvex)	<365	ug/Kg		5/13/2021
2,4-D	<1460	ug/Kg		5/13/2021

Method Reference(s): EPA 8321B
Subcontractor ELAP ID: 10709

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0203**	mg/Kg		5/14/2021 10:21

Method Reference(s): EPA 7471B
Preparation Date: 5/13/2021
Data File: Hg210514C

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**9.53**	mg/Kg		5/12/2021 18:16
Barium	**39.4**	mg/Kg		5/12/2021 18:16
Cadmium	**0.650**	mg/Kg		5/12/2021 18:16
Chromium	**14.3**	mg/Kg		5/12/2021 18:16
Lead	**23.7**	mg/Kg		5/12/2021 18:16
Selenium	**2.24**	mg/Kg		5/12/2021 18:16
Silver	< 0.591	mg/Kg		5/12/2021 18:16

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/11/2021
Data File: 210512B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0346	mg/Kg		5/13/2021 18:26

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-40 (3.5-4.0 ft.)		
Lab Sample ID:	211960-08	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

PCB-1221	< 0.0346	mg/Kg		5/13/2021 18:26
PCB-1232	< 0.0346	mg/Kg		5/13/2021 18:26
PCB-1242	< 0.0346	mg/Kg		5/13/2021 18:26
PCB-1248	< 0.0346	mg/Kg		5/13/2021 18:26
PCB-1254	< 0.0346	mg/Kg		5/13/2021 18:26
PCB-1260	< 0.0346	mg/Kg		5/13/2021 18:26
PCB-1262	< 0.0346	mg/Kg		5/13/2021 18:26
PCB-1268	< 0.0346	mg/Kg		5/13/2021 18:26

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**67.0**	16.4 - 99.1		5/13/2021 18:26

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/12/2021

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.46	ug/Kg		5/13/2021 14:11
4,4-DDE	< 3.46	ug/Kg		5/13/2021 14:11
4,4-DDT	< 3.46	ug/Kg		5/13/2021 14:11
Aldrin	< 3.46	ug/Kg		5/13/2021 14:11
alpha-BHC	< 3.46	ug/Kg		5/13/2021 14:11
beta-BHC	< 3.46	ug/Kg		5/13/2021 14:11
cis-Chlordane	< 3.46	ug/Kg		5/13/2021 14:11
delta-BHC	< 3.46	ug/Kg		5/13/2021 14:11
Dieldrin	**24.3**	ug/Kg		5/13/2021 14:11
Endosulfan I	< 3.46	ug/Kg		5/13/2021 14:11
Endosulfan II	< 3.46	ug/Kg		5/13/2021 14:11
Endosulfan Sulfate	< 3.46	ug/Kg		5/13/2021 14:11
Endrin	< 3.46	ug/Kg		5/13/2021 14:11
Endrin Aldehyde	< 3.46	ug/Kg		5/13/2021 14:11
Endrin Ketone	< 3.46	ug/Kg		5/13/2021 14:11

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-40 (3.5-4.0 ft.)		
Lab Sample ID:	211960-08	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

gamma-BHC (Lindane)	< 3.46	ug/Kg		5/13/2021 14:11
Heptachlor	< 3.46	ug/Kg		5/13/2021 14:11
Heptachlor Epoxide	< 3.46	ug/Kg		5/13/2021 14:11
Methoxychlor	< 3.46	ug/Kg		5/13/2021 14:11
Toxaphene	< 34.6	ug/Kg		5/13/2021 14:11
trans-Chlordane	< 3.46	ug/Kg		5/13/2021 14:11

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**127**	10 - 134		5/13/2021 14:11
Tetrachloro-m-xylene (1)	**97.3**	26.3 - 99.8		5/13/2021 14:11

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 5/12/2021

Semi-Volatile Organics (Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 308	ug/Kg		5/13/2021 01:50
1,2,4,5-Tetrachlorobenzene	< 308	ug/Kg		5/13/2021 01:50
1,2,4-Trichlorobenzene	< 308	ug/Kg		5/13/2021 01:50
1,2-Dichlorobenzene	< 308	ug/Kg		5/13/2021 01:50
1,3-Dichlorobenzene	< 308	ug/Kg		5/13/2021 01:50
1,4-Dichlorobenzene	< 308	ug/Kg		5/13/2021 01:50
2,2-Oxybis (1-chloropropane)	< 308	ug/Kg		5/13/2021 01:50
2,4-Dinitrotoluene	< 308	ug/Kg		5/13/2021 01:50
2,6-Dinitrotoluene	< 308	ug/Kg		5/13/2021 01:50
2-Chloronaphthalene	< 308	ug/Kg		5/13/2021 01:50
2-Methylnapthalene	< 308	ug/Kg		5/13/2021 01:50
2-Nitroaniline	< 308	ug/Kg		5/13/2021 01:50
3,3'-Dichlorobenzidine	< 308	ug/Kg		5/13/2021 01:50
3-Nitroaniline	< 308	ug/Kg		5/13/2021 01:50
4-Bromophenyl phenyl ether	< 308	ug/Kg		5/13/2021 01:50
4-Chloroaniline	< 308	ug/Kg		5/13/2021 01:50

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-40 (3.5-4.0 ft.)		
Lab Sample ID:	211960-08	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

4-Chlorophenyl phenyl ether	< 308	ug/Kg	5/13/2021 01:50
4-Nitroaniline	< 308	ug/Kg	5/13/2021 01:50
Acenaphthene	< 308	ug/Kg	5/13/2021 01:50
Acenaphthylene	< 308	ug/Kg	5/13/2021 01:50
Acetophenone	< 308	ug/Kg	5/13/2021 01:50
Anthracene	< 308	ug/Kg	5/13/2021 01:50
Atrazine	< 308	ug/Kg	5/13/2021 01:50
Benzaldehyde	< 308	ug/Kg	5/13/2021 01:50
Benzo (a) anthracene	< 308	ug/Kg	5/13/2021 01:50
Benzo (a) pyrene	< 308	ug/Kg	5/13/2021 01:50
Benzo (b) fluoranthene	< 308	ug/Kg	5/13/2021 01:50
Benzo (g,h,i) perylene	< 308	ug/Kg	5/13/2021 01:50
Benzo (k) fluoranthene	< 308	ug/Kg	5/13/2021 01:50
Bis (2-chloroethoxy) methane	< 308	ug/Kg	5/13/2021 01:50
Bis (2-chloroethyl) ether	< 308	ug/Kg	5/13/2021 01:50
Bis (2-ethylhexyl) phthalate	< 308	ug/Kg	5/13/2021 01:50
Butylbenzylphthalate	< 308	ug/Kg	5/13/2021 01:50
Caprolactam	< 308	ug/Kg	5/13/2021 01:50
Carbazole	< 308	ug/Kg	5/13/2021 01:50
Chrysene	< 308	ug/Kg	5/13/2021 01:50
Dibenz (a,h) anthracene	< 308	ug/Kg	5/13/2021 01:50
Dibenzofuran	< 308	ug/Kg	5/13/2021 01:50
Diethyl phthalate	< 308	ug/Kg	5/13/2021 01:50
Dimethyl phthalate	< 308	ug/Kg	5/13/2021 01:50
Di-n-butyl phthalate	< 308	ug/Kg	5/13/2021 01:50
Di-n-octylphthalate	< 308	ug/Kg	5/13/2021 01:50
Fluoranthene	< 308	ug/Kg	5/13/2021 01:50
Fluorene	< 308	ug/Kg	5/13/2021 01:50
Hexachlorobenzene	< 308	ug/Kg	5/13/2021 01:50
Hexachlorobutadiene	< 308	ug/Kg	5/13/2021 01:50

Sample Identifier:	TP21-40 (3.5-4.0 ft.)		
Lab Sample ID:	211960-08	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Hexachlorocyclopentadiene	< 1230	ug/Kg		5/13/2021 01:50
Hexachloroethane	< 308	ug/Kg		5/13/2021 01:50
Indeno (1,2,3-cd) pyrene	< 308	ug/Kg		5/13/2021 01:50
Isophorone	< 308	ug/Kg		5/13/2021 01:50
Naphthalene	< 308	ug/Kg		5/13/2021 01:50
Nitrobenzene	< 308	ug/Kg		5/13/2021 01:50
N-Nitroso-di-n-propylamine	< 308	ug/Kg		5/13/2021 01:50
N-Nitrosodiphenylamine	< 308	ug/Kg		5/13/2021 01:50
Phenanthrene	< 308	ug/Kg		5/13/2021 01:50
Pyrene	< 308	ug/Kg		5/13/2021 01:50

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**63.6**	34.6 - 83.9		5/13/2021 01:50
Nitrobenzene-d5	**57.9**	32.4 - 76		5/13/2021 01:50
Terphenyl-d14	**74.1**	38.2 - 88.8		5/13/2021 01:50

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/11/2021
Data File: B54081.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 6.25	ug/Kg		5/11/2021 17:14
1,1,2,2-Tetrachloroethane	< 6.25	ug/Kg		5/11/2021 17:14
1,1,2-Trichloroethane	< 6.25	ug/Kg		5/11/2021 17:14
1,1-Dichloroethane	< 6.25	ug/Kg		5/11/2021 17:14
1,1-Dichloroethene	< 6.25	ug/Kg		5/11/2021 17:14
1,2,3-Trichlorobenzene	< 15.6	ug/Kg		5/11/2021 17:14
1,2,4-Trichlorobenzene	< 15.6	ug/Kg		5/11/2021 17:14
1,2-Dibromo-3-Chloropropane	< 31.2	ug/Kg		5/11/2021 17:14
1,2-Dibromoethane	< 6.25	ug/Kg		5/11/2021 17:14
1,2-Dichlorobenzene	< 6.25	ug/Kg		5/11/2021 17:14
1,2-Dichloroethane	< 6.25	ug/Kg		5/11/2021 17:14

Sample Identifier:	TP21-40 (3.5-4.0 ft.)		
Lab Sample ID:	211960-08	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

1,2-Dichloropropane	< 6.25	ug/Kg	5/11/2021 17:14
1,3-Dichlorobenzene	< 6.25	ug/Kg	5/11/2021 17:14
1,4-Dichlorobenzene	< 6.25	ug/Kg	5/11/2021 17:14
1,4-Dioxane	< 31.2	ug/Kg	5/11/2021 17:14
2-Butanone	< 31.2	ug/Kg	5/11/2021 17:14
2-Hexanone	< 15.6	ug/Kg	5/11/2021 17:14
4-Methyl-2-pentanone	< 15.6	ug/Kg	5/11/2021 17:14
Acetone	< 31.2	ug/Kg	5/11/2021 17:14
Benzene	< 6.25	ug/Kg	5/11/2021 17:14
Bromochloromethane	< 15.6	ug/Kg	5/11/2021 17:14
Bromodichloromethane	< 6.25	ug/Kg	5/11/2021 17:14
Bromoform	< 15.6	ug/Kg	5/11/2021 17:14
Bromomethane	< 6.25	ug/Kg	5/11/2021 17:14
Carbon disulfide	< 6.25	ug/Kg	5/11/2021 17:14
Carbon Tetrachloride	< 6.25	ug/Kg	5/11/2021 17:14
Chlorobenzene	< 6.25	ug/Kg	5/11/2021 17:14
Chloroethane	< 6.25	ug/Kg	5/11/2021 17:14
Chloroform	< 6.25	ug/Kg	5/11/2021 17:14
Chloromethane	< 6.25	ug/Kg	5/11/2021 17:14
cis-1,2-Dichloroethene	< 6.25	ug/Kg	5/11/2021 17:14
cis-1,3-Dichloropropene	< 6.25	ug/Kg	5/11/2021 17:14
Cyclohexane	< 31.2	ug/Kg	5/11/2021 17:14
Dibromochloromethane	< 6.25	ug/Kg	5/11/2021 17:14
Dichlorodifluoromethane	< 6.25	ug/Kg	5/11/2021 17:14
Ethylbenzene	< 6.25	ug/Kg	5/11/2021 17:14
Freon 113	< 6.25	ug/Kg	5/11/2021 17:14
Isopropylbenzene	< 6.25	ug/Kg	5/11/2021 17:14
m,p-Xylene	< 6.25	ug/Kg	5/11/2021 17:14
Methyl acetate	< 6.25	ug/Kg	5/11/2021 17:14
Methyl tert-butyl Ether	< 6.25	ug/Kg	5/11/2021 17:14

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-40 (3.5-4.0 ft.)		
Lab Sample ID:	211960-08	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Methylcyclohexane	< 6.25	ug/Kg		5/11/2021 17:14
Methylene chloride	< 15.6	ug/Kg		5/11/2021 17:14
o-Xylene	< 6.25	ug/Kg		5/11/2021 17:14
Styrene	< 15.6	ug/Kg		5/11/2021 17:14
Tetrachloroethene	< 6.25	ug/Kg		5/11/2021 17:14
Toluene	< 6.25	ug/Kg		5/11/2021 17:14
trans-1,2-Dichloroethene	< 6.25	ug/Kg		5/11/2021 17:14
trans-1,3-Dichloropropene	< 6.25	ug/Kg		5/11/2021 17:14
Trichloroethene	< 6.25	ug/Kg		5/11/2021 17:14
Trichlorofluoromethane	< 6.25	ug/Kg		5/11/2021 17:14
Vinyl chloride	< 6.25	ug/Kg		5/11/2021 17:14

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**96.0**	52.5 - 151		5/11/2021 17:14
4-Bromofluorobenzene	**96.9**	37.7 - 146		5/11/2021 17:14
Pentafluorobenzene	**84.8**	92.1 - 115	*	5/11/2021 17:14
Toluene-D8	**93.8**	74 - 120		5/11/2021 17:14

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

Data File: z01502.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.

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.508	mg/Kg		5/14/2021

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 5/13/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-31 (11.0-11.5 ft.)		
Lab Sample ID:	211960-09	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-T	<3880	ug/Kg		5/13/2021
2,4,5-TP (Silvex)	<3880	ug/Kg		5/13/2021
2,4-D	<16800	ug/Kg		5/13/2021

Method Reference(s): EPA 8321B
Subcontractor ELAP ID: 10709

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0769**	mg/Kg		5/14/2021 10:22

Method Reference(s): EPA 7471B
Preparation Date: 5/13/2021
Data File: Hg210514C

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**50.9**	mg/Kg		5/12/2021 18:20
Barium	**42.3**	mg/Kg		5/12/2021 18:20
Cadmium	< 0.771	mg/Kg		5/12/2021 18:20
Chromium	**5.00**	mg/Kg		5/12/2021 18:20
Lead	**91.4**	mg/Kg		5/12/2021 18:20
Selenium	< 3.08	mg/Kg		5/12/2021 18:20
Silver	< 1.54	mg/Kg		5/12/2021 18:20

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/11/2021
Data File: 210512B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0889	mg/Kg		5/13/2021 19:37

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-31 (11.0-11.5 ft.)		
Lab Sample ID:	211960-09	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

PCB-1221	< 0.0889	mg/Kg		5/13/2021 19:37
PCB-1232	< 0.0889	mg/Kg		5/13/2021 19:37
PCB-1242	< 0.0889	mg/Kg		5/13/2021 19:37
PCB-1248	< 0.0889	mg/Kg		5/13/2021 19:37
PCB-1254	< 0.0889	mg/Kg		5/13/2021 19:37
PCB-1260	< 0.0889	mg/Kg		5/13/2021 19:37
PCB-1262	< 0.0889	mg/Kg		5/13/2021 19:37
PCB-1268	< 0.0889	mg/Kg		5/13/2021 19:37

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**63.1**	16.4 - 99.1		5/13/2021 19:37

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/12/2021

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 88.9	ug/Kg		5/14/2021 14:30
4,4-DDE	< 88.9	ug/Kg		5/14/2021 14:30
4,4-DDT	< 88.9	ug/Kg		5/14/2021 14:30
Aldrin	**94.8**	ug/Kg		5/14/2021 14:30
alpha-BHC	< 88.9	ug/Kg		5/14/2021 14:30
beta-BHC	< 88.9	ug/Kg		5/14/2021 14:30
cis-Chlordane	< 88.9	ug/Kg		5/14/2021 14:30
delta-BHC	< 88.9	ug/Kg		5/14/2021 14:30
Dieldrin	**649**	ug/Kg		5/14/2021 14:30
Endosulfan I	< 88.9	ug/Kg		5/14/2021 14:30
Endosulfan II	< 88.9	ug/Kg		5/14/2021 14:30
Endosulfan Sulfate	< 88.9	ug/Kg		5/14/2021 14:30
Endrin	< 88.9	ug/Kg		5/14/2021 14:30
Endrin Aldehyde	< 88.9	ug/Kg		5/14/2021 14:30
Endrin Ketone	**243**	ug/Kg		5/14/2021 14:30

Sample Identifier:	TP21-31 (11.0-11.5 ft.)		
Lab Sample ID:	211960-09	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

gamma-BHC (Lindane)	< 88.9	ug/Kg		5/14/2021 14:30
Heptachlor	< 88.9	ug/Kg		5/14/2021 14:30
Heptachlor Epoxide	< 88.9	ug/Kg		5/14/2021 14:30
Methoxychlor	< 88.9	ug/Kg		5/14/2021 14:30
Toxaphene	< 889	ug/Kg		5/14/2021 14:30
trans-Chlordane	< 88.9	ug/Kg		5/14/2021 14:30

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
Decachlorobiphenyl (1)	NC	10 - 134		5/14/2021 14:30
Tetrachloro-m-xylene (1)	NC	26.3 - 99.8		5/14/2021 14:30

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 5/12/2021

Semi-Volatile Organics (Base Neutrals)

Analyte	**Result**	**Units**	**Qualifier**	**Date Analyzed**
1,1-Biphenyl	< 875	ug/Kg		5/14/2021 22:08
1,2,4,5-Tetrachlorobenzene	< 875	ug/Kg		5/14/2021 22:08
1,2,4-Trichlorobenzene	< 875	ug/Kg		5/14/2021 22:08
1,2-Dichlorobenzene	< 875	ug/Kg		5/14/2021 22:08
1,3-Dichlorobenzene	< 875	ug/Kg		5/14/2021 22:08
1,4-Dichlorobenzene	< 875	ug/Kg		5/14/2021 22:08
2,2-Oxybis (1-chloropropane)	< 875	ug/Kg		5/14/2021 22:08
2,4-Dinitrotoluene	< 875	ug/Kg		5/14/2021 22:08
2,6-Dinitrotoluene	< 875	ug/Kg		5/14/2021 22:08
2-Chloronaphthalene	< 875	ug/Kg		5/14/2021 22:08
2-Methylnapthalene	< 875	ug/Kg		5/14/2021 22:08
2-Nitroaniline	< 875	ug/Kg		5/14/2021 22:08
3,3'-Dichlorobenzidine	< 875	ug/Kg		5/14/2021 22:08
3-Nitroaniline	< 875	ug/Kg		5/14/2021 22:08
4-Bromophenyl phenyl ether	< 875	ug/Kg		5/14/2021 22:08
4-Chloroaniline	< 875	ug/Kg		5/14/2021 22:08

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-31 (11.0-11.5 ft.)		
Lab Sample ID:	211960-09	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

4-Chlorophenyl phenyl ether	< 875	ug/Kg	5/14/2021 22:08
4-Nitroaniline	< 875	ug/Kg	5/14/2021 22:08
Acenaphthene	< 875	ug/Kg	5/14/2021 22:08
Acenaphthylene	< 875	ug/Kg	5/14/2021 22:08
Acetophenone	**6470**	ug/Kg	5/14/2021 22:08
Anthracene	< 875	ug/Kg	5/14/2021 22:08
Atrazine	< 875	ug/Kg	5/14/2021 22:08
Benzaldehyde	**24400**	ug/Kg	5/14/2021 22:08
Benzo (a) anthracene	< 875	ug/Kg	5/14/2021 22:08
Benzo (a) pyrene	< 875	ug/Kg	5/14/2021 22:08
Benzo (b) fluoranthene	< 875	ug/Kg	5/14/2021 22:08
Benzo (g,h,i) perylene	< 875	ug/Kg	5/14/2021 22:08
Benzo (k) fluoranthene	< 875	ug/Kg	5/14/2021 22:08
Bis (2-chloroethoxy) methane	< 875	ug/Kg	5/14/2021 22:08
Bis (2-chloroethyl) ether	< 875	ug/Kg	5/14/2021 22:08
Bis (2-ethylhexyl) phthalate	< 875	ug/Kg	5/14/2021 22:08
Butylbenzylphthalate	< 875	ug/Kg	5/14/2021 22:08
Caprolactam	< 875	ug/Kg	5/14/2021 22:08
Carbazole	< 875	ug/Kg	5/14/2021 22:08
Chrysene	< 875	ug/Kg	5/14/2021 22:08
Dibenz (a,h) anthracene	< 875	ug/Kg	5/14/2021 22:08
Dibenzofuran	< 875	ug/Kg	5/14/2021 22:08
Diethyl phthalate	< 875	ug/Kg	5/14/2021 22:08
Dimethyl phthalate	< 875	ug/Kg	5/14/2021 22:08
Di-n-butyl phthalate	< 875	ug/Kg	5/14/2021 22:08
Di-n-octylphthalate	< 875	ug/Kg	5/14/2021 22:08
Fluoranthene	< 875	ug/Kg	5/14/2021 22:08
Fluorene	< 875	ug/Kg	5/14/2021 22:08
Hexachlorobenzene	< 875	ug/Kg	5/14/2021 22:08
Hexachlorobutadiene	< 875	ug/Kg	5/14/2021 22:08

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-31 (11.0-11.5 ft.)		
Lab Sample ID:	211960-09	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Hexachlorocyclopentadiene	< 3500	ug/Kg		5/14/2021 22:08
Hexachloroethane	< 875	ug/Kg		5/14/2021 22:08
Indeno (1,2,3-cd) pyrene	< 875	ug/Kg		5/14/2021 22:08
Isophorone	< 875	ug/Kg		5/14/2021 22:08
Naphthalene	< 875	ug/Kg		5/14/2021 22:08
Nitrobenzene	< 875	ug/Kg		5/14/2021 22:08
N-Nitroso-di-n-propylamine	< 875	ug/Kg		5/14/2021 22:08
N-Nitrosodiphenylamine	< 875	ug/Kg		5/14/2021 22:08
Phenanthrene	< 875	ug/Kg		5/14/2021 22:08
Pyrene	< 875	ug/Kg		5/14/2021 22:08

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**63.6**	34.6 - 83.9		5/14/2021 22:08
Nitrobenzene-d5	**57.8**	32.4 - 76		5/14/2021 22:08
Terphenyl-d14	**67.5**	38.2 - 88.8		5/14/2021 22:08

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/11/2021
Data File: B54169.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 21.9	ug/Kg		5/11/2021 17:33
1,1,2,2-Tetrachloroethane	< 21.9	ug/Kg		5/11/2021 17:33
1,1,2-Trichloroethane	< 21.9	ug/Kg		5/11/2021 17:33
1,1-Dichloroethane	< 21.9	ug/Kg		5/11/2021 17:33
1,1-Dichloroethene	< 21.9	ug/Kg		5/11/2021 17:33
1,2,3-Trichlorobenzene	< 54.7	ug/Kg		5/11/2021 17:33
1,2,4-Trichlorobenzene	< 54.7	ug/Kg		5/11/2021 17:33
1,2-Dibromo-3-Chloropropane	< 109	ug/Kg		5/11/2021 17:33
1,2-Dibromoethane	< 21.9	ug/Kg		5/11/2021 17:33
1,2-Dichlorobenzene	< 21.9	ug/Kg		5/11/2021 17:33
1,2-Dichloroethane	< 21.9	ug/Kg		5/11/2021 17:33

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-31 (11.0-11.5 ft.)		
Lab Sample ID:	211960-09	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

1,2-Dichloropropane	< 21.9	ug/Kg	5/11/2021 17:33
1,3-Dichlorobenzene	< 21.9	ug/Kg	5/11/2021 17:33
1,4-Dichlorobenzene	< 21.9	ug/Kg	5/11/2021 17:33
1,4-Dioxane	< 109	ug/Kg	5/11/2021 17:33
2-Butanone	**114**	ug/Kg	5/11/2021 17:33
2-Hexanone	< 54.7	ug/Kg	5/11/2021 17:33
4-Methyl-2-pentanone	< 54.7	ug/Kg	5/11/2021 17:33
Acetone	**327**	ug/Kg	5/11/2021 17:33
Benzene	< 21.9	ug/Kg	5/11/2021 17:33
Bromochloromethane	< 54.7	ug/Kg	5/11/2021 17:33
Bromodichloromethane	< 21.9	ug/Kg	5/11/2021 17:33
Bromoform	< 54.7	ug/Kg	5/11/2021 17:33
Bromomethane	< 21.9	ug/Kg	5/11/2021 17:33
Carbon disulfide	< 21.9	ug/Kg	5/11/2021 17:33
Carbon Tetrachloride	< 21.9	ug/Kg	5/11/2021 17:33
Chlorobenzene	< 21.9	ug/Kg	5/11/2021 17:33
Chloroethane	< 21.9	ug/Kg	5/11/2021 17:33
Chloroform	< 21.9	ug/Kg	5/11/2021 17:33
Chloromethane	< 21.9	ug/Kg	5/11/2021 17:33
cis-1,2-Dichloroethene	< 21.9	ug/Kg	5/11/2021 17:33
cis-1,3-Dichloropropene	< 21.9	ug/Kg	5/11/2021 17:33
Cyclohexane	< 109	ug/Kg	5/11/2021 17:33
Dibromochloromethane	< 21.9	ug/Kg	5/11/2021 17:33
Dichlorodifluoromethane	< 21.9	ug/Kg	5/11/2021 17:33
Ethylbenzene	< 21.9	ug/Kg	5/11/2021 17:33
Freon 113	< 21.9	ug/Kg	5/11/2021 17:33
Isopropylbenzene	< 21.9	ug/Kg	5/11/2021 17:33
m,p-Xylene	< 21.9	ug/Kg	5/11/2021 17:33
Methyl acetate	< 21.9	ug/Kg	5/11/2021 17:33
Methyl tert-butyl Ether	< 21.9	ug/Kg	5/11/2021 17:33

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-31 (11.0-11.5 ft.)		
Lab Sample ID:	211960-09	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Methylcyclohexane	< 21.9	ug/Kg		5/11/2021 17:33
Methylene chloride	< 54.7	ug/Kg		5/11/2021 17:33
o-Xylene	< 21.9	ug/Kg		5/11/2021 17:33
Styrene	< 54.7	ug/Kg		5/11/2021 17:33
Tetrachloroethene	< 21.9	ug/Kg		5/11/2021 17:33
Toluene	< 21.9	ug/Kg		5/11/2021 17:33
trans-1,2-Dichloroethene	< 21.9	ug/Kg		5/11/2021 17:33
trans-1,3-Dichloropropene	< 21.9	ug/Kg		5/11/2021 17:33
Trichloroethene	< 21.9	ug/Kg		5/11/2021 17:33
Trichlorofluoromethane	< 21.9	ug/Kg		5/11/2021 17:33
Vinyl chloride	< 21.9	ug/Kg		5/11/2021 17:33

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**108**	52.5 - 151		5/11/2021 17:33
4-Bromofluorobenzene	**97.7**	37.7 - 146		5/11/2021 17:33
Pentafluorobenzene	**93.8**	92.1 - 115		5/11/2021 17:33
Toluene-D8	**100**	74 - 120		5/11/2021 17:33

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

Data File: z01503.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.

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 1.41	mg/Kg		5/14/2021

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 5/13/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-35 (3.0-3.5 ft.)		
Lab Sample ID:	211960-10	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-T	<342	ug/Kg		5/13/2021
2,4,5-TP (Silvex)	<342	ug/Kg		5/13/2021
2,4-D	<1370	ug/Kg		5/13/2021

Surrogate outliers indicate matrix effects.

Method Reference(s): EPA 8321B
Subcontractor ELAP ID: 10709

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.101**	mg/Kg		5/14/2021 10:24

Method Reference(s): EPA 7471B
Preparation Date: 5/13/2021
Data File: Hg210514C

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**3.01**	mg/Kg		5/12/2021 18:25
Barium	**47.7**	mg/Kg		5/12/2021 18:25
Cadmium	**0.665**	mg/Kg		5/12/2021 18:25
Chromium	**8.18**	mg/Kg		5/12/2021 18:25
Lead	**41.3**	mg/Kg		5/12/2021 18:25
Selenium	< 1.11	mg/Kg		5/12/2021 18:25
Silver	**0.897**	mg/Kg		5/12/2021 18:25

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/11/2021
Data File: 210512B

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-35 (3.0-3.5 ft.)		
Lab Sample ID:	211960-10	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0295	mg/Kg		5/13/2021 18:02
PCB-1221	< 0.0295	mg/Kg		5/13/2021 18:02
PCB-1232	< 0.0295	mg/Kg		5/13/2021 18:02
PCB-1242	< 0.0295	mg/Kg		5/13/2021 18:02
PCB-1248	< 0.0295	mg/Kg		5/13/2021 18:02
PCB-1254	< 0.0295	mg/Kg		5/13/2021 18:02
PCB-1260	< 0.0295	mg/Kg		5/13/2021 18:02
PCB-1262	< 0.0295	mg/Kg		5/13/2021 18:02
PCB-1268	< 0.0295	mg/Kg		5/13/2021 18:02

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**54.7**	16.4 - 99.1		5/13/2021 18:02

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/12/2021

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 2.95	ug/Kg		5/13/2021 17:44
4,4-DDE	**5.60**	ug/Kg		5/13/2021 17:44
4,4-DDT	**5.10**	ug/Kg		5/13/2021 17:44
Aldrin	< 2.95	ug/Kg		5/13/2021 17:44
alpha-BHC	< 2.95	ug/Kg		5/13/2021 17:44
beta-BHC	< 2.95	ug/Kg		5/13/2021 17:44
cis-Chlordane	**4.80**	ug/Kg	P	5/13/2021 17:44
delta-BHC	< 2.95	ug/Kg		5/13/2021 17:44
Dieldrin	**32.3**	ug/Kg		5/13/2021 17:44
Endosulfan I	< 2.95	ug/Kg		5/13/2021 17:44
Endosulfan II	< 2.95	ug/Kg		5/13/2021 17:44
Endosulfan Sulfate	**3.06**	ug/Kg	P	5/13/2021 17:44

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-35 (3.0-3.5 ft.)		
Lab Sample ID:	211960-10	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Endrin	< 2.95	ug/Kg		5/13/2021 17:44
Endrin Aldehyde	< 2.95	ug/Kg		5/13/2021 17:44
Endrin Ketone	< 2.95	ug/Kg		5/13/2021 17:44
gamma-BHC (Lindane)	< 2.95	ug/Kg		5/13/2021 17:44
Heptachlor	< 2.95	ug/Kg		5/13/2021 17:44
Heptachlor Epoxide	**3.14**	ug/Kg		5/13/2021 17:44
Methoxychlor	< 2.95	ug/Kg		5/13/2021 17:44
Toxaphene	< 29.5	ug/Kg		5/13/2021 17:44
trans-Chlordane	**5.02**	ug/Kg		5/13/2021 17:44

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**64.4**	10 - 134		5/13/2021 17:44
Tetrachloro-m-xylene (1)	**69.7**	26.3 - 99.8		5/13/2021 17:44

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 5/12/2021

Semi-Volatile Organics (Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 305	ug/Kg		5/13/2021 02:48
1,2,4,5-Tetrachlorobenzene	< 305	ug/Kg		5/13/2021 02:48
1,2,4-Trichlorobenzene	< 305	ug/Kg		5/13/2021 02:48
1,2-Dichlorobenzene	< 305	ug/Kg		5/13/2021 02:48
1,3-Dichlorobenzene	< 305	ug/Kg		5/13/2021 02:48
1,4-Dichlorobenzene	< 305	ug/Kg		5/13/2021 02:48
2,2-Oxybis (1-chloropropane)	< 305	ug/Kg		5/13/2021 02:48
2,4-Dinitrotoluene	< 305	ug/Kg		5/13/2021 02:48
2,6-Dinitrotoluene	< 305	ug/Kg		5/13/2021 02:48
2-Chloronaphthalene	< 305	ug/Kg		5/13/2021 02:48
2-Methylnapthalene	< 305	ug/Kg		5/13/2021 02:48
2-Nitroaniline	< 305	ug/Kg		5/13/2021 02:48
3,3'-Dichlorobenzidine	< 305	ug/Kg		5/13/2021 02:48

Lab Project ID: 211960

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-35 (3.0-3.5 ft.)		
Lab Sample ID:	211960-10	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

3-Nitroaniline	< 305	ug/Kg	5/13/2021 02:48
4-Bromophenyl phenyl ether	< 305	ug/Kg	5/13/2021 02:48
4-Chloroaniline	< 305	ug/Kg	5/13/2021 02:48
4-Chlorophenyl phenyl ether	< 305	ug/Kg	5/13/2021 02:48
4-Nitroaniline	< 305	ug/Kg	5/13/2021 02:48
Acenaphthene	< 305	ug/Kg	5/13/2021 02:48
Acenaphthylene	< 305	ug/Kg	5/13/2021 02:48
Acetophenone	< 305	ug/Kg	5/13/2021 02:48
Anthracene	< 305	ug/Kg	5/13/2021 02:48
Atrazine	< 305	ug/Kg	5/13/2021 02:48
Benzaldehyde	< 305	ug/Kg	5/13/2021 02:48
Benzo (a) anthracene	**655**	ug/Kg	5/13/2021 02:48
Benzo (a) pyrene	**712**	ug/Kg	5/13/2021 02:48
Benzo (b) fluoranthene	**670**	ug/Kg	5/13/2021 02:48
Benzo (g,h,i) perylene	**482**	ug/Kg	5/13/2021 02:48
Benzo (k) fluoranthene	**413**	ug/Kg	5/13/2021 02:48
Bis (2-chloroethoxy) methane	< 305	ug/Kg	5/13/2021 02:48
Bis (2-chloroethyl) ether	< 305	ug/Kg	5/13/2021 02:48
Bis (2-ethylhexyl) phthalate	< 305	ug/Kg	5/13/2021 02:48
Butylbenzylphthalate	< 305	ug/Kg	5/13/2021 02:48
Caprolactam	< 305	ug/Kg	5/13/2021 02:48
Carbazole	< 305	ug/Kg	5/13/2021 02:48
Chrysene	**647**	ug/Kg	5/13/2021 02:48
Dibenz (a,h) anthracene	< 305	ug/Kg	5/13/2021 02:48
Dibenzofuran	< 305	ug/Kg	5/13/2021 02:48
Diethyl phthalate	< 305	ug/Kg	5/13/2021 02:48
Dimethyl phthalate	< 305	ug/Kg	5/13/2021 02:48
Di-n-butyl phthalate	< 305	ug/Kg	5/13/2021 02:48
Di-n-octylphthalate	< 305	ug/Kg	5/13/2021 02:48
Fluoranthene	**1280**	ug/Kg	5/13/2021 02:48

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-35 (3.0-3.5 ft.)		
Lab Sample ID:	211960-10	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

Fluorene	< 305	ug/Kg		5/13/2021 02:48
Hexachlorobenzene	< 305	ug/Kg		5/13/2021 02:48
Hexachlorobutadiene	< 305	ug/Kg		5/13/2021 02:48
Hexachlorocyclopentadiene	< 1220	ug/Kg		5/13/2021 02:48
Hexachloroethane	< 305	ug/Kg		5/13/2021 02:48
Indeno (1,2,3-cd) pyrene	**541**	ug/Kg		5/13/2021 02:48
Isophorone	< 305	ug/Kg		5/13/2021 02:48
Naphthalene	< 305	ug/Kg		5/13/2021 02:48
Nitrobenzene	< 305	ug/Kg		5/13/2021 02:48
N-Nitroso-di-n-propylamine	< 305	ug/Kg		5/13/2021 02:48
N-Nitrosodiphenylamine	< 305	ug/Kg		5/13/2021 02:48
Phenanthrene	**706**	ug/Kg		5/13/2021 02:48
Pyrene	**1010**	ug/Kg		5/13/2021 02:48

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**70.5**	34.6 - 83.9		5/13/2021 02:48
Nitrobenzene-d5	**65.8**	32.4 - 76		5/13/2021 02:48
Terphenyl-d14	**76.3**	38.2 - 88.8		5/13/2021 02:48

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/11/2021
Data File: B54083.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 6.40	ug/Kg		5/11/2021 17:53
1,1,2,2-Tetrachloroethane	< 6.40	ug/Kg		5/11/2021 17:53
1,1,2-Trichloroethane	< 6.40	ug/Kg		5/11/2021 17:53
1,1-Dichloroethane	< 6.40	ug/Kg		5/11/2021 17:53
1,1-Dichloroethene	< 6.40	ug/Kg		5/11/2021 17:53
1,2,3-Trichlorobenzene	< 16.0	ug/Kg		5/11/2021 17:53
1,2,4-Trichlorobenzene	< 16.0	ug/Kg		5/11/2021 17:53
1,2-Dibromo-3-Chloropropane	< 32.0	ug/Kg		5/11/2021 17:53

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Sample Identifier:	TP21-35 (3.0-3.5 ft.)		
Lab Sample ID:	211960-10	**Date Sampled:**	5/7/2021
Matrix:	Soil	**Date Received:**	5/10/2021

1,2-Dibromoethane	< 6.40	ug/Kg	5/11/2021 17:53
1,2-Dichlorobenzene	< 6.40	ug/Kg	5/11/2021 17:53
1,2-Dichloroethane	< 6.40	ug/Kg	5/11/2021 17:53
1,2-Dichloropropane	< 6.40	ug/Kg	5/11/2021 17:53
1,3-Dichlorobenzene	< 6.40	ug/Kg	5/11/2021 17:53
1,4-Dichlorobenzene	< 6.40	ug/Kg	5/11/2021 17:53
1,4-Dioxane	< 32.0	ug/Kg	5/11/2021 17:53
2-Butanone	< 32.0	ug/Kg	5/11/2021 17:53
2-Hexanone	< 16.0	ug/Kg	5/11/2021 17:53
4-Methyl-2-pentanone	< 16.0	ug/Kg	5/11/2021 17:53
Acetone	< 32.0	ug/Kg	5/11/2021 17:53
Benzene	< 6.40	ug/Kg	5/11/2021 17:53
Bromochloromethane	< 16.0	ug/Kg	5/11/2021 17:53
Bromodichloromethane	< 6.40	ug/Kg	5/11/2021 17:53
Bromoform	< 16.0	ug/Kg	5/11/2021 17:53
Bromomethane	< 6.40	ug/Kg	5/11/2021 17:53
Carbon disulfide	< 6.40	ug/Kg	5/11/2021 17:53
Carbon Tetrachloride	< 6.40	ug/Kg	5/11/2021 17:53
Chlorobenzene	< 6.40	ug/Kg	5/11/2021 17:53
Chloroethane	< 6.40	ug/Kg	5/11/2021 17:53
Chloroform	< 6.40	ug/Kg	5/11/2021 17:53
Chloromethane	< 6.40	ug/Kg	5/11/2021 17:53
cis-1,2-Dichloroethene	< 6.40	ug/Kg	5/11/2021 17:53
cis-1,3-Dichloropropene	< 6.40	ug/Kg	5/11/2021 17:53
Cyclohexane	< 32.0	ug/Kg	5/11/2021 17:53
Dibromochloromethane	< 6.40	ug/Kg	5/11/2021 17:53
Dichlorodifluoromethane	< 6.40	ug/Kg	5/11/2021 17:53
Ethylbenzene	< 6.40	ug/Kg	5/11/2021 17:53
Freon 113	< 6.40	ug/Kg	5/11/2021 17:53
Isopropylbenzene	< 6.40	ug/Kg	5/11/2021 17:53

Sample Identifier: TP21-35 (3.0-3.5 ft.)
Lab Sample ID: 211960-10 **Date Sampled:** 5/7/2021
Matrix: Soil **Date Received:** 5/10/2021

m,p-Xylene	< 6.40	ug/Kg	5/11/2021	17:53
Methyl acetate	< 6.40	ug/Kg	5/11/2021	17:53
Methyl tert-butyl Ether	< 6.40	ug/Kg	5/11/2021	17:53
Methylcyclohexane	< 6.40	ug/Kg	5/11/2021	17:53
Methylene chloride	< 16.0	ug/Kg	5/11/2021	17:53
o-Xylene	< 6.40	ug/Kg	5/11/2021	17:53
Styrene	< 16.0	ug/Kg	5/11/2021	17:53
Tetrachloroethene	< 6.40	ug/Kg	5/11/2021	17:53
Toluene	< 6.40	ug/Kg	5/11/2021	17:53
trans-1,2-Dichloroethene	< 6.40	ug/Kg	5/11/2021	17:53
trans-1,3-Dichloropropene	< 6.40	ug/Kg	5/11/2021	17:53
Trichloroethene	< 6.40	ug/Kg	5/11/2021	17:53
Trichlorofluoromethane	< 6.40	ug/Kg	5/11/2021	17:53
Vinyl chloride	< 6.40	ug/Kg	5/11/2021	17:53

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**101**	52.5 - 151		5/11/2021	17:53
4-Bromofluorobenzene	**95.7**	37.7 - 146		5/11/2021	17:53
Pentafluorobenzene	**92.8**	92.1 - 115		5/11/2021	17:53
Toluene-D8	**99.2**	74 - 120		5/11/2021	17:53

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: z01504.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.

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.508	mg/Kg	M	5/14/2021

Method Reference(s): EPA 9014
EPA 9010C
Preparation Date: 5/13/2021

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Bergmann Associates

Project Reference: Wambach Site Culver Road Providence Irondequoit

Lab Project ID: 211960

Matrix: Soil

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed	
Arsenic	<0.481	mg/Kg		5/12/2021	17:07
Barium	<4.81	mg/Kg		5/12/2021	17:07
Cadmium	<0.240	mg/Kg		5/12/2021	17:07
Chromium	<0.481	mg/Kg		5/12/2021	17:07
Lead	<0.481	mg/Kg		5/12/2021	17:07
Selenium	<0.962	mg/Kg		5/12/2021	17:07
Silver	<0.481	mg/Kg		5/12/2021	17:07

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/11/2021
Data File: 210512B
QC Batch ID: QC210511Soil2
QC Number: Blk 1

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: **Bergmann Associates**

Project Reference: Wambach Site Culver Road Providence Irondequoit

Lab Project ID: 211960

Matrix: Soil

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	121	124	mg/Kg	116	118	95.6	95.3	80 - 120			0.388	20		5/12/2021
Barium	121	124	mg/Kg	129	132	107	107	80 - 120			0.0618	20		5/12/2021
Cadmium	48.5	49.5	mg/Kg	50.6	51.8	104	105	80 - 120			0.425	20		5/12/2021
Chromium	121	124	mg/Kg	123	126	102	102	80 - 120			0.0974	20		5/12/2021
Lead	121	124	mg/Kg	126	128	104	104	80 - 120			0.193	20		5/12/2021
Selenium	121	124	mg/Kg	111	113	91.9	91.4	80 - 120			0.515	20		5/12/2021
Silver	12.1	12.4	mg/Kg	11.3	11.6	92.8	93.8	80 - 120			1.11	20		5/12/2021

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/11/2021
Data File: 210512B
QC Number: 1
QC Batch ID: QC210511Soil2

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 13, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Sample Spike and Sample Duplicate

Client: **Bergmann Associates** **Lab Project ID:** 211960

Project Reference: Wambach Site Culver Road Providence Irondequoit

Lab Sample ID: 211960-01 **Date Sampled:** 5/7/2021
Sample Identifier: TP21-38 (4.0-4.5 ft.) **Date Received:** 5/10/2021
Matrix: Soil

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	**4.34**	mg/Kg	142	126	85.7	75 - 125		4.59	5.49	20		5/12/2021
Barium	**44.5**	mg/Kg	142	175	91.9	75 - 125		103	79.6	20	*	5/12/2021
Cadmium	**0.754**	mg/Kg	56.7	47.6	82.6	75 - 125		0.901	17.8	20		5/12/2021
Chromium	**9.93**	mg/Kg	142	131	85.3	75 - 125		11.0	10.6	20		5/12/2021
Lead	**80.9**	mg/Kg	142	184	72.7	75 - 125	*	89.0	9.44	20		5/12/2021
Selenium	**1.21**	mg/Kg	142	120	83.7	75 - 125		<1.09	NC	20		5/12/2021
Silver	< 0.567	mg/Kg	14.2	13.0	91.4	75 - 125		<0.545	NC	20		5/12/2021

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/11/2021
210512B
QC Batch ID: QC210511Soil2

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.

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.
"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, tern 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

PARADIGM ENVIRONMENTAL SERVICES, LLC

REPORT TO:		INVOICE TO:		
CLIENT:	Bergmann	CLIENT:	Same	LAB PROJECT ID: 211966
ADDRESS:	280 E. Broad Street	ADDRESS:		
CITY:	Rochester STATE: NY ZIP: 14604	CITY: STATE: ZIP:		Quotation #:
PHONE:	(585) 233-2396	PHONE:		Email:
ATTN:	Steve DeMeo	ATTN:		

PROJECT REFERENCE
Wambach site culvert repair
Providence, Irondequoit

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	TCL VOC 8260	8270 BN	Pest 8081	Herb 8151	PAH 8270 (low)	PCB 8082	Cyanide 9012	REMARKS	PARADIGM LAB SAMPLE NUMBER
5/7/21	750		X	TP21-38 (4.0-4.5ft.)	SO	5	X	X	X	X	X	X	X	5035 collection Method for VOC8260 - not frozen w/in 48 of collection, use ja- per S. DeMeo verbal SD 5/10/21	01
5/7/21	830		X	TP21-37 (2.5-3.0ft.)	SO	5	X	X	X	X	X	X	X		02
5/7/21	930		X	TP21-36 (2.5-3.0ft.)	SO	5	X	X	X	X	X	X	X		03
5/7/21	1030		X	TP21-34 (12.5-13ft.)	SO	5	X	X	X	X	X	X	X		04
5/7/21	1130		X	TP21-24 (18.0-18.5ft.)	SO	5	X	X	X	X	X	X	X		05
5/7/21	1230		X	TP21-25 (3.0-3.5ft.)	SO	5	X	X	X	X	X	X	X		06
5/7/21	130		X	TP21-28 (5.0-5.5ft.)	SO	5	X	X	X	X	X	X	X		07
5/7/21	200		X	TP21-40 (3.5-4.0ft.)	SO	5	X	X	X	X	X	X	X		08
5/7/21	230		X	TP21-31 (11.0-11.5ft.)	SO	5	X	X	X	X	X	X	X		09
5/7/21	255		X	TP21-35 (3.0-3.5ft.)	SO	5	X	X	X	X	X	X	X		10

Stephen J. DeMeo 5/7/21

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		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:	

Sampled By	Date/Time 5/10/21 1120	Total Cost:
Relinquished By	Date/Time 5/10/21 1120	
Received By	Date/Time 5/10/21 11:39	P.I.F.
Received @ Lab By	Date/Time	

3°C iced 5/10/21 11:23

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

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: Bergmann Associates **Completed by:** Glenn Pezzulo

Lab Project ID: 211960 **Date:** 5/10/21

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	X	X 5035	
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X metals
Comments	3°C iced		
Compliant Sample Quantity/Type	X		
Comments			

2105511008

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

CHAIN OF CUSTODY

ADIRONDACK: ELAP I

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT P
ADDRESS:		ADDRESS:			
CITY:	STATE: ZIP:	CITY:	STATE: ZIP:	TURNAROUND TIME: (WORKING D	
PHONE:	FAX:	PHONE:	FAX:		STI
PROJECT NAME/SITE NAME:		ATTN:	Reporting	ATTN:	Accounts Payable
		COMMENTS:	Please email results to reporting@paradigmenv.com	Date Due: 5/18/	

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	Herbicides	REMARKS
1	5/7/21	07:50		X	211960-01	Soil	1	X	
2		08:30			-02				
3		09:30			-03				
4		10:30			-04				
5		11:30			-05				
6		12:30			-06				
7		13:30			-07				
8		14:00			-08				
9		14:30			-09				
10		14:55			-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: Not AES Ac 5/11		
Preservation:	Y ☐	N ☐
Comments:		
Holding Time:	Y ☐	N ☐
Comments:		
Temperature: 5.2°C	Y ☐	N ☐
Comments:		

Client

Sampled By: 2P2 Date/Time: 5/11/21 08:30

Relinquished By: Date/Time:

Received By: Date/Time:

Received @ Lab By: AC Date/Time: 5/11/21 3:55pm

Total Cost:

P.I.F.

APPENDIX 3

280 E. Broad Street
Rochester, NY 14604

TEL: 585.232.5135
www.bergmannpc.com

LIMITATIONS FOR INVESTIGATION PROJECT WORK

1. While additional explorations will always better define the nature and extent of contamination at any given site, it is our professional opinion that soil at the site has been sampled and analyzed for VOCs, SVOCs, Metals, Pesticides, and Hebicides at limited locations.

2. Environmental impairment of a property may result from activities such as illegal, unreported dumping, or sudden spilling of hazardous waste or materials. It should be noted that the presence of contaminants at a particular property may not always be apparent to the fullest extent, and the completion of a Phase I or Phase II Environmental Site Assessment at select areas and sample intervals cannot provide a guarantee that contamination and or hazardous waste or regulated materials do not exist in media tested or at other areas on the Site that were not investigated or tested.

3. It should be noted that no subsurface exploration can be thorough enough to exclude the possible presence of, variation of chemical compounds, hazardous materials or wastes at a given site. In cases where contaminants have not been discovered though exploration, this should not be construed as a guarantee that contaminants do not exist. At a given site, environmental conditions may exist that cannot be identified by visual observation. Where sample collection and testing have been performed, Bergmann's professional opinions are based in part on the interpretation of data from discrete sampling locations that may not represent conditions at unsampled locations.

4. It is the nature of environmental site assessment work for soil conditions observed during future remediation to vary from the conditions identified during the site assessment explorations, even when the exploration program conforms to industry standards.

PHOTOGRAPHS

280 E. Broad Street
Rochester, NY 14604

TEL: 585.232.5135
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Test Pit TP21-37 fill soils and fill materials

TP22-34 view looking east

TP21-38 landfilled materials

TP21-39 landfilled fill soils over lacustrine native soils

TP21-39 water in test pit

TP21-31 water in test pit