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ARCHITECTS ENGINEERS PLANNERS

DRAFT PHASE II ENVIRONMENTAL SITE ASSESSMENT

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 Phase II Environmental Site Assessment (Phase II ESA), to evaluate locations of Recognized Environmental Conditions (RECs) at one (1) parcel located in the Town of Irondequoit, Monroe County, New York. The 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. Phase II ESA was recommended by Bergmann based on the findings of the Phase I ESA report dated September 2020. The following RECs were identified in the Phase I ESA for the Site that required 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 (2) 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.

Bergmann's New York State Licensed Professional Geologist (PG) monitored the Phase II ESA and concurrent Geotechnical Survey field work which included the installation of test pits, field screening, and collection of soil samples on November 17, 2020. The purpose of this 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 August 6, 2020. The location of the Site vicinity is presented on Figure 1 and the approximate locations of test pit excavations are shown on Figure EX-1 – Test Pit Location Map.

2.0 SITE INVESTIGATION METHODS / SOIL SAMPLING AND FIELD SCREENING

The Phase II ESA field investigation included installation of test pits with collection of soil samples based on field soil screening and visual observations. The methods used are presented in Section 2.1, below.

2.1 SUBSURFACE EXPLORATIONS

The Phase II ESA included the installation of twenty-three (23) test pit excavations designated TP20-1 through TP20-23 at the Site to allow for the investigation of RECs. 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 PG (Bergmann PG) observed test pit excavations for Phase II ESA observations and monitoring. The approximate locations of the test pit excavations are presented on Figure EX-1.

Test pits were excavated to completion depths ranging from approximately four (4) to sixteen (16) 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). The weather during the field work was windy with a mix of rain and snow and the temperature was 33 degrees. These conditions are not optimal for field screening soils with a PID and may cause inaccurate measurements. Soil field screening (PID) measurements are summarized in Section 3.1 of this report and presented on each Test pit log. PID measurements were non-detect (ND) for soils screened from each test pit location.

Soil samples were selected for laboratory analysis from seven (7) 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

Two (2) overburden soil deposits were encountered at the test pit locations. The overburden deposits encountered, with an increasing depth, include fill and lacustrine. 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. 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. 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 from TP20-2 through TP20-23 were non-detect (ND). Therefore, elevated PID measurements for total organic vapors were not detected from soil excavated at each test pit location. However, petroleum and potential solvent odors were noted during the excavation of test pits TP-20-2 (petroleum odor), TP20-14, and TP20-16

(potential petroleum/solvent odor). It is noted that the weather during field work was noted to be cold and windy. These weather conditions typically reduce the accuracy of PID readings in the field.

4.0 SOIL QUALITY

Seven (7) soil samples from TP20-2 (6.0-7.0 ft.), TP20-7 (0.5-0.7 ft.), TP20-10 (5.0-5.5 ft.), TP20-11 (6.0-7.0 ft.), TP20-14 (8.5-9.0 ft.), TP20-16 (8.0-8.5 ft.), and TP20-18 (0.5-0.7 ft.) were selected based on PID measurements/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 for gasoline chemical compounds from samples TP20-2 (6.0-7.0 ft.) and TP20-14 (8.5-9.0 ft.) were non-detect (ND) with concentrations below the laboratory method detection limits in sample TP20-2 (6.0-7.0 ft.). Three (3) gasoline VOC compounds were detected in TP20-14 (8.5-9.0 ft.) with the following concentrations expressed in parts per million (ppm), m,p-Xylene (0.0149 ppm), o-Xylene (0.0124 ppm), and n-Propylbenzene (0.00822). The levels of these gasoline VOCs results are below NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted-Residential Use Soil Cleanup Objectives (RRSCOs), see Table 1 – VOC Analytical Summary.

However, petroleum nuisance odors were noted by olfactory senses during the excavation of test pits TP-20-2 (petroleum odor) and TP20-14 (potential petroleum). Therefore, soil cleanup levels for a nuisance condition appear to be exceeded as presented in NYSDEC CP-51/ Soil Cleanup guidance. Based on our field observations, it appears that VOCs 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. The laboratory reports are presented in Appendix 2 – Laboratory Analytical Reports. Sample locations are shown on Figure EX-1.

4.2 SEMI-VOLATILE PETROLEUM COMPOUNDS – SVOCS

The laboratory SVOCs results from samples are TP20-2 (6.0-7.0 ft.) and TP20-14 (8.5-9.0 ft.) indicate detection of six (6) individual SVOCs at concentrations below UUSCO in sample TP20-2 that include, Benzo (a) anthracene (0.334 ppm), Benzo (a) pyrene (0.331 ppm), Chrysene (0.377 ppm), Fluoranthene (0.622 ppm), Phenanthrene (0.455 ppm), and Pyrene (0.502 ppm). The sample results from TP20-14 (8.5-9.0 ft.) indicate detections of two (2) SVOCs that exceed UUSCOs and three (3) exceeded RRUSCOs as listed below:

SVOC	Test Pit Location	Concentration Range (ppm)	UUSCOs (ppm)	RRUSCO (ppm)
Benzo (a) anthracene	TP20-2 and TP20-14	0.334 to 1.500	1	1
Benzo (a) pyrene	TP20-2 and TP20-14	0.331 to 1.230	1	1
Benzo (b) fluoranthene	TP20-14	1.130	1	1
Chrysene	TP20-2 and TP20-14	0.337 to 1.260	1	3.9
Indeno (1,2,3-cd)pyrene	TP20-14	0.690	0.5	500

The SVOCs detected are likely Polycyclic Aromatic Hydrocarbons (PAHs) and are typically associated with incomplete combustion in materials such as cinder and ash. A complete summary of detected SVOCs is presented in Table 2 – SVOC Analytical Summary. The locations of the samples are shown on Figure EX-1. 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 seven (7) metals in samples 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.). Barium, selenium, and silver were detected in these soil samples at levels below UUSCOs. Concentration of detected metals in sample TP20-7 (0.5-0.7 ft.) were below UUSCO levels. The concentration of Arsenic detected at 23.5 ppm in TP20-10 (5.0-5.5 ft.) exceeds the UUSCO level of 13 ppm and RRUSCO of 16 ppm. Concentrations of cadmium in samples TP20-10 (5.0-5.5 ft.) at 5.43 ppm and TP20-18 (0.5-0.7 ft.) at 3.37 ppm exceed the UUSCO level of 2.5 ppm and RRUSCO level of 4.3 ppm. The concentration of chromium at 30.7 ppm exceeds the UUSCO in sample TP20-18 (0.5-0.7 ft.). Mercury was detected at a concentration of 0.20 in TP20-10 (5.0-5.5 ft. that exceeds the UUSCO of 0.18 ppm. The detected lead concentrations exceed the UUSCO level of 63 ppm in each sample. The concentration of lead detected in TP20-10 (5.0-5.5 ft.) at 439 ppm exceeds the RRUSCO level of 400 ppm. It should be noted that the results for detected concentrations of metals in samples TP20-7 (0.5-0.7 ft.) and TP20-18 (0.5-0.7 ft.) represent metals levels from the topsoil encountered at the ground surface. The source of the detected metals is likely from the fill soils/landfilled materials and may be from cinders, ash, and slag observed in the fill soils. The concentration of metals is summarized in the table below that presents the range of metals concentrations 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)	RRUSCO (ppm)
Arsenic	TP20-7, TP20-10, TP20-11, TP20-16, TP20-18	3.95 to 23.5	13	16
Barium	TP20-7, TP20-10, TP20-11, TP20-16, TP20-18	45.9 to 192	350	400
Cadmium	TP20-10 and TP20-18	1.75 to 5.43	2.5	4.3
Chromium	TP20-7, TP20-10, TP20-11, TP20-16, TP20-18	7.6 to 30.7	30	180
Lead	TP20-7, TP20-10, TP20-11, TP20-16, TP20-18	95.1 to 439	63	400
Mercury	TP20-7, TP20-10, TP20-11, TP20-16, TP20-18	0.0735 to 0.2	0.18	0.81
Silver	TP20-10	0.87	2	180

The laboratory analytical report is presented in Appendix 2. The approximate test pit sample locations are presented on Figure EX-1.

4.4 CHLORINATED PESTICIDES

Laboratory chlorinated pesticides (pesticides) 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 detection of four (4) pesticides that exceed UUSCOs levels and are below RRUSCOs. These pesticides include, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and Dieldrin. Results from TP20-11 (6.0-7.0 ft.) were non-detect above the method detection limits. The concentration of pesticides is summarized in the table below that presents the range of pesticide concentrations and attached Table 4 – Pesticide Analytical Summary – Pesticides presents the laboratory data summary. The laboratory results are presented in Appendix 2.

Pesticide	Test Pit Location	Concentration Range (ppm)	UUSCOs (ppm)	RRUSCO (ppm)
4,4'-DDD	TP20-7, TP20-10, TP20-16, TP20-18	0.00758 to 0.0269	0.0033	13
4,4'-DDE	TP20-7, TP20-10, TP20-16, TP20-18	0.00462 to 0.0608	0.0033	8.9
4,4'-DDT	TP20-7, TP20-10, TP20-16, TP20-18	0.00353 to 0.0465	0.0033	7.9
Dieldrin	TP20-10 and TP20-16	0.00634 to 0.0177	0.005	0.2

The source(s) of the pesticides is likely from the former farming uses on the Site supported by detection of pesticides in TP20-7 (0.5-0.7 ft.) and TP20-18 (0.5-0.7 ft.) that are samples from topsoil. It is also possible that fill soils on the Site may have been impacted with pesticides. Since samples TP20-10 (5.0-5.5 ft.) and TP20-16 (8-8.5 ft.) represent subsurface soil samples impacted with pesticides. The laboratory reports are presented in Appendix 2. The test pit sample locations are presented on Figure EX-1.

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 ESA findings, observations, laboratory results and project Limitations – Appendix 3 Limitations.

1. The overburden soil deposits encountered include, imported topsoil, a fill deposit, and a lacustrine deposit. The imported topsoil was approximately 0.5 ft. in thickness and overlies the fill deposit that represents soils that have been transported to the Site and landfilled that contain what appears to be urban fill materials 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, 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.

2. Total organic vapors measured with the PID ranged were ND 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) and 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. It was noted that the weather the day of the Phase II ESA was cold and windy. These weather conditions typically reduce the accuracy of PID readings in the field.

3. Low levels of VOCs were detected, and herbicides were not detected above the method detection limits. VOCs and herbicides are below UUSCOs in the soil samples.

4. Concentrations of five (5) individual SVOCs were detected at levels that exceed UUSCOs and three (3) SVOCs exceeded RRSCOs in sample TP20-14(8.5-9.0 ft.).

5. Levels of five (5) metals that include arsenic, cadmium, chromium, lead, and mercury exceed the UUSCOs. The concentration of arsenic, cadmium, and lead also exceeded the RRSCOs in sample TP20-10 (5.5-5.5 ft.).

6. 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.

7. The limited soil 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 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.

8. The results of the Phase ll ESA have not completed the nature and extent of the fill materials 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. 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.

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.

TABLES

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Table 1
VOC Analytical Summary
Phase II Environmental Site Assessment
2590 Culver Road
Lot 1 Wambach Farm Property
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	TP20-2(6.0-7.0 ft.)	TP20-14(8.5-9.0 ft.)	TP20-16(8.0-8.5 ft.)
EPA 8260 - TCL Volatile Organics							
1,1,1-Trichloroethane	0.68	100	500		NA	NA	ND
1,1,2,2-Tetrachloroethane	-	-	-	-	NA	NA	ND
1,1,2-Trichloroethane	-	-	-	-	NA	NA	ND
1,1-Dichloroethane	0.27	26	240		NA	NA	ND
1.1-Dichloroethene	0.33	100	500		NA	NA	ND
1,2,3-Trichlorobenzene	-	-	-	-	NA	NA	ND
1,2,4-Trichlorobenzene	3.6	52	190		NA	NA	ND
1,2,4-Trimethylbenzene	3.6	52	190	3.6	ND	ND	ND
1,2-Dibromo-3-Chloropropane	-	-	-	-	NA	NA	ND
1,2-Dibromomethane	-	-	-	-	NA	NA	ND
1,2-Dichlorobenzene	1.1	500	500	-	NA	NA	ND
1,2-Dichloroethane	0.02	3.1	30	-	NA	NA	ND
1,2-Dichloropropane	-	-	-	-	NA	NA	ND
1,3-Dichlorobenzene	1.8	100	500	-	NA	NA	ND
1,4-Dichlorobenzene	1.8	130	130	-	NA	NA	ND
1,4-Dioxane	0.1	13	130		NA	NA	ND
2-Butanone	0.12	100	500		NA	NA	ND
2-Hexanone	-	-	-	-	NA	NA	ND
4-Methyl-2-pentanone	-	-	-	-	NA	NA	ND
Acetone	0.05	100	500		NA	NA	ND
Benzene	0.06	2.40	44	0.06	ND	ND	ND
Bromochloromethane	-	-	-	-	NA	NA	ND
Bromodichloromethane	-	-	-	-	NA	NA	ND
Bromoform	-	-	-	-	NA	NA	ND
Bromomethane	-	-	-	-	NA	NA	ND
Carbon Disulfide	-	-	-	-	NA	NA	ND
Carbon Tetrachloride	0.76	2.4	22		NA	NA	ND
Chlorobenzene	-	-	-	-	NA	NA	ND
Chloroethane	-	-	-	-	NA	NA	ND
Chloroform	0.37	49	350		NA	NA	ND
Chloromethane	-	-	-	-	NA	NA	ND
cis-1,2-Dichloroethene	0.25	100	500		NA	NA	ND
cis-1,3-Dichloropropene	-	-	-	-	NA	NA	ND
Cyclohexane	-	-	-	-	NA	NA	ND
Dibromochloromethane	-	-	-	-	NA	NA	ND
Dichlorodifluoromethane	-	-	-	-	NA	NA	ND
Ethylbenzene	1	41	390	1	ND	ND	ND
Freon 113	-	-	-	-	NA	NA	ND
Isopropylbenzene	-	-	-	2.3	ND	ND	ND
m,p-Xylene	-	-	-	-	ND	0.0149	ND
Methyl acetate	-	-	-	-	NA	NA	ND
Methyl tert-butyl Ether	0.93	100	500	0.93	ND	ND	ND
Methylcyclohexane	-	-	-	-	NA	NA	ND
Methylene chloride	0.05	100	500		NA	NA	ND
Styrene	-	-	-	-	NA	NA	ND
Tetrachloroethene	1.3	150	150		NA	NA	ND
Toluene	0.7	100	500	0.7	ND	ND	ND
trans-1,2-Dichloroethene	-	-	-	-	NA	NA	ND
trans-1,3-Dichloropropene	-	-	-	-	NA	NA	ND
Trichloroethene	0.47	21	200		NA	NA	ND
Trichlorofluoromethane	-	-	-	-	NA	NA	ND
Vinyl Chloride	0.2	0.9	13		NA	NA	ND
N-Butylbenzene	12	100	500	12	ND	ND	ND
N-Propylbenzene	3.9	100	500	3.9	ND	0.00822	ND
Naphthalene	12	100	500	12	ND	ND	ND
o-Xylene	-	-	-	-	ND	0.0124	ND
p-Isopropyltoluene	-	-	-	10	ND	ND	ND
sec-Butylbenzene	11	100	500	11	ND	ND	ND
Xylenes (mixed)	0.26	100	500	0.26	ND	ND	ND
Trichloroethene	0.47	21	200		NA	NA	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.

Table 2
SVOC Anaylitical Summary
Phase II Environmental Site Assessment
2590 Culver Road
Lot 1 of Wambach Farm Property
Town of Irondequoit, New York

Analyzed Parameters[1]	Unrestricted Use[2]	Restricted Residential Use[3]	Commercial Use[3]	CP-51 Soil Cleanup Guidance	TP20-2 (6.0-7.0 ft.)	TP20-14 (8.5-9.0 ft.)
EPA 8270 - NYSDEC CP-51 list (PAHs)						
Acenaphthene	20	100	500	500	ND	0.322
Acenaphthylene	100	500	500	500	ND	ND
Anthracene	100	100	500	500	ND	0.641
Benzo(a)anthracene	1	1	5.6	5.6	0.334	**1.500**
Benzo(a)pyrene	1	1	1	1	0.331	**1.230**
Benzo(b)fluoranthene	1	1	5.6	5.6	ND	**1.130**
Benzo(g,h,i)perylene	100	100	500	500	ND	0.779
Benzo(k)fluoranthene	0.8	3.9	56	56	ND	0.786
Chrysene	1	3.9	56	56	0.377	**1.260**
Dibenzo(a,h)anthracene	0.33	0.33	0.560	0.560	ND	ND
Fluoranthene	100	100	500	500	0.622	3.330
Fluorene	30	100	500	500	ND	0.334
Indeno(1,2,3-cd)pyrene	0.5	500	5.6	5.6	ND	**0.690**
Naphthalene	12	100	500	500	ND	ND
Phenanthrene	100	100	500	500	0.455	2.660
Pyrene	100	100	500	500	0.502	2.440

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 stand

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

J - value is estimated

NA - Not analyzed

ND- Not detected above laboratory detection limits.

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

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Analyzed Parameters[1]	Unrestricted Use[2]	Restricted Residential Use[3]	Commercial Use[3]	TP20-7 (0.5-0.7 ft.)	TP20-10 (5.0-5.5ft.)	TP20-11 (6.0-7.0ft.)	TP20-16 (8.0-8.5ft.)	TP20-18 (0.5-0.7ft.)
Arsenic	13	16	16	3.75	**23.5**	3.95	3.95	8.46
Barium	350	400	400	27.3.5	192	61.1	45.9	78.7
Cadmium	2.5	4.3	9.3	1.43	**5.43**	1.78	1.75	**3.37**
Chromium	30	180	1500	8.06	14.9	7.6	8.46	**30.7**
Lead	63	400	1000	42.6	**439**	**95.1**	**120**	**255**
Mercury	0.18	0.81	2.8	0.0518	**0.2**	0.111	0.156	0.0735
Selenium	3.9	180	1500	ND	ND	ND	ND	ND
Silver	2	180	1500	ND	0.87	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.

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

Analyzed Parameters	Unrestricted Use[3]	Restricted Residential[4]	Commercial Use[4]	TP20-7 (0.5-0.7 ft.) 11/17/20	TP20-10(5.0-5.5 ft.) 011/17/20	TP20-11 (6.0-7.0 ft.) 11/17/20	TP20-16(8.0-8.5 ft.) 11/17/20	TP20-18(0.5-0.7 ft.) 11/17/20
Table 3 - Pesticides Analytical Summary - Soils								
Aldrin	0.005	0.097	0.680	0.0134	0.00387	ND	ND	ND
Alpha-BHC	0.02	0.480	3.4	0.00409	ND	ND	ND	ND
delta-BHC	-	-	-	0.0107	0.0049	ND	ND	0.00361
beta-BHC	0.036	0.360	3.0	0.0151	ND	ND	ND	ND
2,4,5-TP Acid (Silvex)	3.8	100	500	ND	ND	ND	ND	ND
4,4'-DDD	0.0033	13	92	**0.00758**	**0.0207**	ND	**0.0269**	**0.0206**
4,4'-DDE	0.0033	8.9	62	**0.00462**	**0.0129**	ND	**0.00795**	**0.0608**
4,4'-DDT	0.0033	7.9	47	**0.00741**	**0.0465**	ND	**0.00353**	**0.0199**
cis-Chlordane	0.094	4.2	24	ND	ND	ND	0.00458	ND
trans-Chlordane	0.094	4.2	24	0.0179	0.00462	ND	0.00823	ND
Dieldrin	0.005	0.200	1.4	ND	**0.0177**	ND	**0.00634**	ND
Endosulfan I	2.4	24	200	0.0167	ND	ND	ND	ND
Endosulfan II	2.4	24	200	ND	ND	ND	ND	ND
Endosulfan Sulfate	2.4	24	200	0.00705	0.0204	ND	ND	ND
Endrin	0.014	11	89	0.00804	0.0049	ND	ND	ND
Endrin Aldelhyde	-	-	-	0.0147	0.00632	ND	ND	ND
Endrin Ketone	-	-	-	0.0291	0.00661	ND	ND	ND
gamma-BHC (Lindane)	0.1	1.3	9.2	ND	0.004	ND	ND	ND
Heptachlor	-	-	-	0.00683	ND	ND	ND	ND
Heptachlor Epoxide	-	-	-	ND	ND	ND	ND	ND
Methoxychlor[5]	NC	100	NC	0.0654	0.0052	ND	ND	ND
Toxaphene	-	-	-	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.

FIGURES

280 E. Broad Street
Rochester, NY 14604

TEL: 585.232.5135
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Providence Housing
2590 Culver Road
Phase I ESA

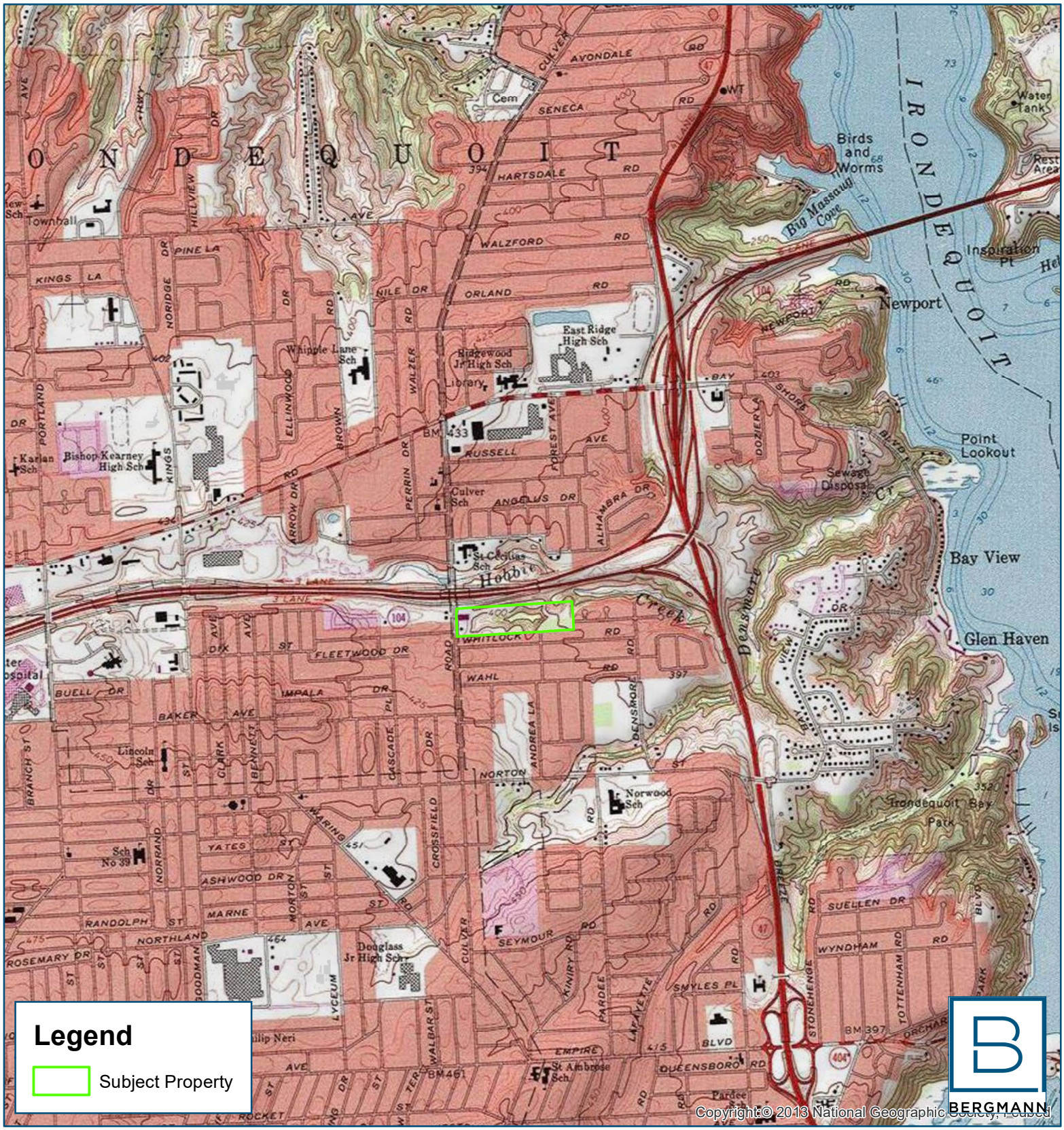
SITE LOCATION MAP

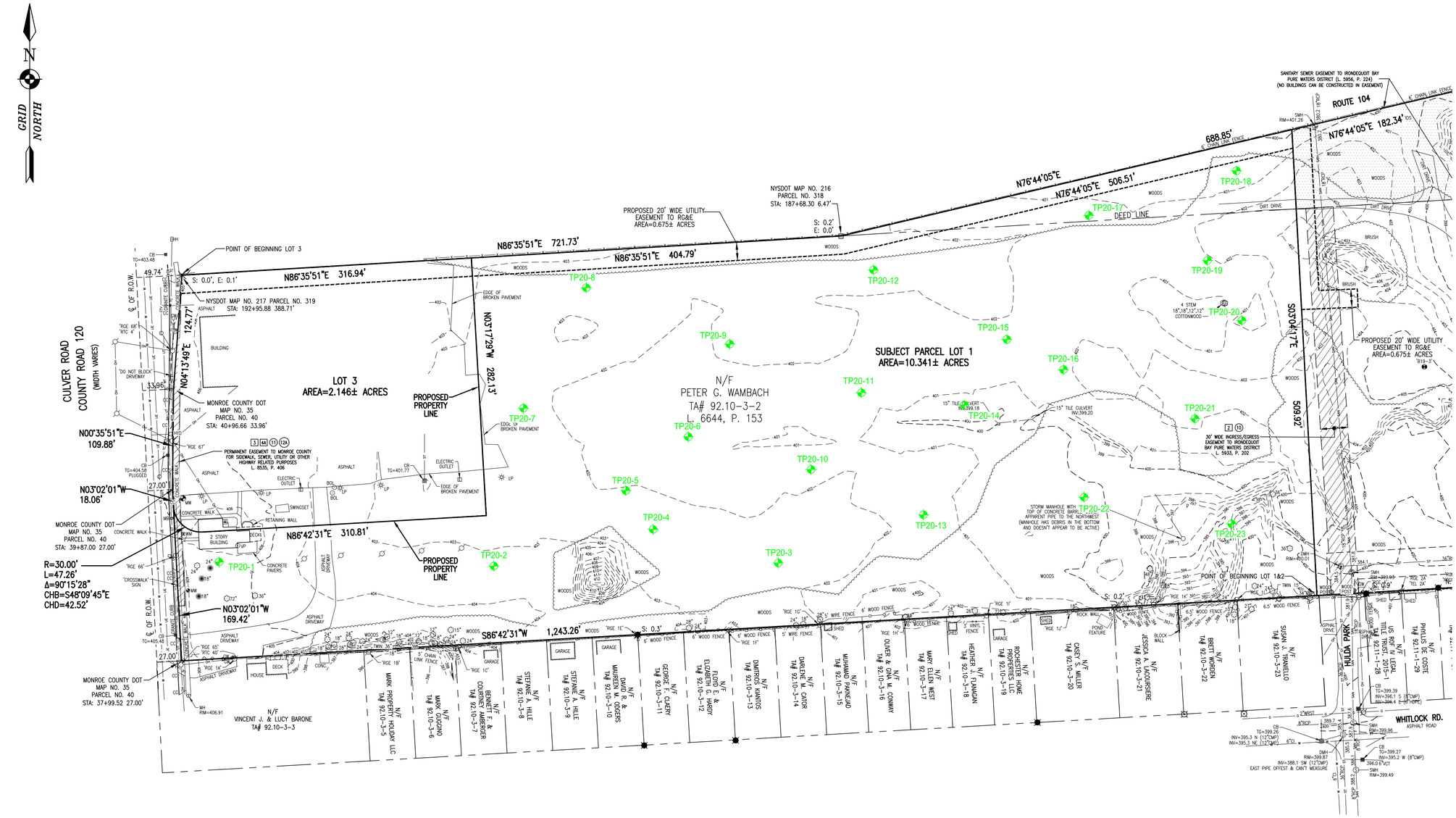
Fig. 1

2,000 Feet

N

Town of Irondequoit, Monroe County, New York





LEGEND

- MONUMENT FOUND
- PIN OR REBAR FOUND
- PIPE FOUND
- DECIDUOUS TREE
- ONE POST SIGN
- MB MAILBOX
- BORE
- UTILITY POLE
- GW GUY WIRE
- HYD FIRE HYDRANT
- WV WATER VALVE
- SMH SANITARY MANHOLE
- CB CATCH BASIN
- DMH DRAINAGE MANHOLE
- E ELECTRIC METER
- LIGHTPOLE (ONE HEAD)
- INV INVERT OR INVERT WITH END SECTION
- EDGE OF WOODS
- SWALE CENTERLINE OF SWALE/DITCH
- EDGE OF WATER
- CHAIN LINK FENCE
- WOOD FENCE
- WIRE FENCE
- GUIDE RAIL
- SAN SANITARY SEWER LINE
- ST STORM SEWER LINE
- W UNDERGROUND WATER LINE
- G UNDERGROUND GAS LINE
- OH OVERHEAD UTILITY WIRE
- UT UNDERGROUND TELEPHONE LINE
- CTV UNDERGROUND CABLE TV LINE
- 405 MAJOR CONTOUR (5' INTERVAL)
- 404 MINOR CONTOUR (1' INTERVAL)
- PROPERTY LINE
- ADJOINING PROPERTY LINE
- EASEMENT LINE
- RIGHT OF WAY LINE
- XX SCHEDULE B EXCEPTION NUMBER POLICY NUMBER M-8912-001332382
- (XX) SCHEDULE B SECTION II EXCEPTION NUMBER TITLE NUMBER WOG-M-02533 (1st AMENDED)

REFERENCES:

1) THE FOLLOWING DEEDS FILED IN THE MONROE COUNTY CLERK'S OFFICE:
LIBER 6644, PAGE 153 LIBER 5956, PAGE 224 LIBER 8535, PAGE 406

2) THE FOLLOWING MAPS FILED IN THE MONROE COUNTY CLERK'S OFFICE:
LIBER 59, PAGE 12 LIBER 177, PAGE 30

3) THE FOLLOWING NYSDOT APPROPRIATION MAPS FOR THE KEELER STREET EXPRESSWAY:
MAP 216, PARCEL 318 MAP 217, PARCEL 319 MAP 222R-1, PARCEL 326

4) THE FOLLOWING MONROE COUNTY DOT APPROPRIATION MAPS FOR CULVER ROAD:
MAP 35, PARCEL NO'S 40 & 42

5) TITLE INSURANCE POLICY PREPARED BY STEWART TITLE INSURANCE COMPANY, POLICY NUMBER M-8912-001332382, DATED AUGUST 2, 2018.

6) TITLE INSURANCE POLICY PREPARED BY STEWART TITLE INSURANCE COMPANY, TITLE NUMBER WOG-M-02533 (1st AMENDED), DATED JUNE 22, 2018.

7) ABSTRACT OF TITLE PREPARED BY STEWART TITLE INSURANCE COMPANY FOR THE LANDS OF PETER G. WAMBACH (TAX ACCOUNT NUMBER 92.10-3-2), ABSTRACT NO. 194091-1, ORDER NO. 81109745, DATED JULY 14, 2020.

8) MAP ENTITLED "SUBDIVISION MAP WAMBACH PROPERTY", PREPARED BY BERGMANN ASSOCIATES AND FILED IN THE MONROE COUNTY CLERK'S OFFICE AT LIBER 361 OF MAPS AT PAGE 48.

NOTES:

1) THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON AN INSTRUMENT LOCATION OF THE ABOVE GROUND FEATURES (MANHOLES, VALVES, HYDRANTS, ETC.) ALONG WITH RECORD UTILITY PLANS AND STAKEOUT IN THE FIELD BY THEIR RESPECTIVE COMPANIES. UNDERGROUND UTILITIES ARE NOT CERTIFIED TO THEIR LOCATION OR COMPLETENESS.

2) THE HORIZONTAL DATUM IS REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, WEST ZONE (NAD 83) THROUGH GPS OBSERVATIONS.

3) THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) THROUGH GPS OBSERVATIONS.

4) NO ABSTRACT OF TITLE PROVIDED. PROPERTY IS SUBJECT TO ANY EASEMENTS, ENCUMBRANCES OR RESTRICTIONS THAT AN ABSTRACT OF TITLE WOULD SHOW.

WE, BERGMANN ASSOCIATES, DO HEREBY CERTIFY THAT THIS MAP WAS MADE FROM THE NOTES OF AN INSTRUMENT SURVEY LAST DATED 10/26/2020 AND FROM THE REFERENCES LISTED HEREON.

XX/XX/2020

ALEX B. McNAMARA, P.L.S. NYS No. 051012 DATE

0 60 120 180 FT
SCALE BAR
1" = 60'

Wambach Property

2590 Culver Road
Irondequoit, New York

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

Bergmann Associates, Architects, Engineers,
Landscape Architects & Surveyors, D.P.C.

280 East Broad Street
Suite 200
Rochester, NY 14604

office: 585.232.5135
fax: 585.232.4652

www.bergmannpc.com

REVISIONS

NO.	DATE	DESCRIPTION	REV.	CK'D

Project Manager: A. HART	Checked By: C. WOOD
Designed By:	Drawn By: A. MCNAMARA
Date Issued: 10/27/2020	Scale: 1" = 60'
Project Number: 14695.00	

EXISTING CONDITIONS SURVEY

Drawing Number:

EX-1

APPENDIX 1

280 E. Broad Street
Rochester, NY 14604

TEL: 585.232.5135
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Environmental Test Pit Log

TP20-2

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of 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		
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			

Elevation:	
Datum:	
Start:	11/17/2020
Finish	11/17/2020
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			Bown coarse to fine SAND and GRAVEL, little silt, damp.
					2.0	
2						- FILL -
			ND			Building debris, cinder blocks, brick, wood, metal pipe, black stained fill matrials with petroluem
4						odors, moist.
6						
			ND			Same. - FILL-
8						Light brown fine SAND, little silt, moist.
						- LACUSTRINE -
10						
			ND			
12						Bottom of test Pit at 11.0 feet.
						Backfilled Test Pit to ground surface.
14						
16						
18						
20						

Groundwater Data

Date	Time	Elapsed Time (HR)	Depth: Bottom Of Casing	Depth: Bottom Of Hole	Depth: Water
11/17/2020	NA	NA	NA	11.0 ft.	No

Summary

Overburden (Lin FT)	11.0
Rock Cored (Lin FT)	NA

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Environmental Test Pit Log

TP20-3

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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			
Type:	NA	NA	NA	Excavator:	CAT 250	Elevation:	
Inside Diameter (IN):	NA	NA	NA	Reach:	16 feet	Datum:	
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Start:	11/17/2020
Hammer Fall (IN):	NA	NA	NA	Other:		Finish	11/17/2020
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			Brown coarse to fine SAND and GRAVEL, little silt, trace clay, damp.
2						Light brown fine SAND, little silt, trace clay, damp (re-graded native soils). - FILL -
4			ND			
6						Same. - FILL-
8			ND			Gray GRAVEL with brick, cinders, ash, wood, and building debris.
10			ND			
12						Same.
14			ND			- FILL-
16						Bottom of test Pit at 15.0 Ft.
18						Backfilled test Pit to graound surface
20						

Groundwater Data						Summary	
			Depth			Overburden (Lin FT)	15.0
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water	Rock Cored (Lin FT)	NA
11/17/2020	NA	NA	NA	15 ft.	No		

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Environmental Test Pit Log

TP20-4

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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:	11/17/2020
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Finish	11/17/2020
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	Dark brown coarse to fine sand, trace silt, with root fragments, damp. - TOPSOIL -
					1	Gray GRAVEL, some coarse to fine sand, trace silt, damp. - FILL -
2						Light brown fine SAND, little silt, trace clay, damp.
						- LACUSTRINE -
			ND		4	
4						Bottom of test Pit at 4.0 ft.
6						Backfilled test Pit to ground surface.
8						
10						
12						
14						
16						
18						
20						

Groundwater Data

			Depth		
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water
11/17/2020	NA	NA	NA	4 ft.	No

Summary

Overburden (Lin FT)	4.0
Rock Cored (Lin FT)	NA

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Environmental Test Pit Log

TP20-5

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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			
Type:	NA	NA	NA	Excavator:	CAT 250	Elevation:	
Inside Diameter (IN):	NA	NA	NA	Reach:	16 feet	Datum:	
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Start:	11/17/2020
Hammer Fall (IN):	NA	NA	NA	Other:		Finish	11/17/2020
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	Red-brown coarse to fine sand, trace silt, with root fragments, damp. - FILL -
					2.0	Gray GRAVEL, some coarse to fine sand, trace silt, damp. - FILL -
2						Gray building debris, brick, metal, wood, rock and concrete. - FILL -
			ND			Same.
4						
6					6	
			ND			Light brown fine SAND, little silt, trace clay, with brown SILT, trace clay seams, damp.
8						- LACUSTRINE -
10						
			ND			Same. - LACUSTRINE -
12						
14						Bottom of test Pit at 12.0 ft.
16						Backfilled test pit to ground surface.
18						
20						

Groundwater Data

			Depth		
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water
11/17/2020	NA	NA	NA	12 ft.	No

Summary

Overburden (Lin FT)	12.0
Rock Cored (Lin FT)	NA

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Environmental Test Pit Log

TP20-6

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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		
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			

Elevation:	
Datum:	
Start:	11/17/2020
Finish	11/17/2020
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	Dark brown coarse to fine sand, trace silt, with root fragments, damp. - TOPSOIL -
					1	Gray GRAVEL, some coarse to fine sand, trace silt, damp. - FILL -
2						Road construction debris with building debris, brick, wood, steel beams, and pavement. - FILL -
			ND			
4						
6						
8						Same. - FILL -
			ND			
10						
			ND			Water entering test pit at approximaterly 11.0 ft. - FILL -
12					11	
14			ND			Rock and boulder debris (possible shot rock) - FILL -
16						Bottom of test Pit at 15.0 Ft.
						Backfilled test Pit to graound surface
18						
20						

Groundwater Data

Date	Time	Elapsed Time (HR)	Depth: Bottom Of Casing	Depth: Bottom Of Hole	Depth: Water
11/17/2020	NA	NA	NA	15 ft.	yes at 11.0 ft.

Summary

Overburden (Lin FT)	15.0
Rock Cored (Lin FT)	NA

Environmental Test Pit Log

TP20-7

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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:	11/17/2020
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Finish	11/17/2020
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			Gray-Brown GRAVEL, some coarse to fine sand, trace silt, damp.
					2.0	- FILL -
2						
			ND			Roadway debris, massive concrete rubble, pavement, and gravel.
4						odors, moist.
6						
			ND			Same. - FILL-
8						Same.
						- FILL -
10						
			ND			
12					12	Wood debris and brush fill with some sand and gravel. .
						- FILL -
14						
16						Same.
						- FILL-
18						Bootm of test pit at approximaterly 17.0 Feet.
20						

Groundwater Data

Date	Time	Elapsed Time (HR)	Depth: Bottom Of Casing	Depth: Bottom Of Hole	Depth: Water
11/17/2020	NA	NA	NA	17.0 ft.	Yes at 15.0 ft.

Summary

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

Environmental Test Pit Log

TP20-8

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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			
Type:	NA	NA	NA	Excavator:	CAT 250	Elevation:	
Inside Diameter (IN):	NA	NA	NA	Reach:	16 feet	Datum:	
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Start:	11/17/2020
Hammer Fall (IN):	NA	NA	NA	Other:		Finish	11/17/2020
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	Red-brown coarse to fine sand, trace silt, with root fragments, damp. - FILL -
					2.0	Gray GRAVEL, some coarse to fine sand, trace silt, damp. - FILL -
2						Light brown fine SAND, little silt, trace clay, damp.
						- LACUSTRINE -
			ND			Same.
4						
6						
			ND			Same. - LACUSTRINE-
8						
						Same.
						- LACUSTRINE -
10						
			ND			
12						
14						Bottom of test Pit at 13.5 ft.
16						Backfilled test pit to ground surface.
18						
20						

Groundwater Data

Date	Time	Elapsed Time (HR)	Depth: Bottom Of Casing	Depth: Bottom Of Hole	Depth: Water
11/17/2020	NA	NA	NA	13.5 ft.	No

Summary

Overburden (Lin FT)	13.5
Rock Cored (Lin FT)	NA

Environmental Test Pit Log

TP20-9

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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			
Type:	NA	NA	NA	Excavator:	CAT 250	Elevation:	
Inside Diameter (IN):	NA	NA	NA	Reach:	16 feet	Datum:	
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Start:	11/17/2020
Hammer Fall (IN):	NA	NA	NA	Other:		Finish	11/17/2020
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	Pavement
						Gray GRAVEL, some coarse to fine sand, trace silt, damp. - FILL -
					2.0	
2						Light brown fine SAND, little silt, trace clay, damp.
						- LACUSTRINE -
			ND			
4						
6						
8						Same. - LACUSTRINE-
			ND			
10						
			ND			
12						
14						
16						Bottom of test Pit at 13.0 Ft.
						Backfilled test Pit to graound surface
18						
20						

Groundwater Data

Date	Time	Elapsed Time (HR)	Depth: Bottom Of Casing	Depth: Bottom Of Hole	Depth: Water
11/17/2020	NA	NA	NA	13 ft.	No

Summary

Overburden (Lin FT)	13.0
Rock Cored (Lin FT)	NA

Environmental Test Pit Log

TP20-10

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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			
Type:	NA	NA	NA	Excavator:	CAT 250	Elevation:	
Inside Diameter (IN):	NA	NA	NA	Reach:	16 feet	Datum:	
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Start:	11/17/2020
Hammer Fall (IN):	NA	NA	NA	Other:		Finish	11/17/2020
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			Brown GRAVEL, little coarse to fine sand, trace silt, damp.
					2.0	Gray GRAVEL, some coarse to fine sand, trace silt, damp. - FILL -
2						Gray buidling debris, brick,wood, ash, cinders, rock boulders, and concrete rubble. - FILL -
			ND			
4						
6						
8						Same. - FILL-
			ND			
10						
			ND			
12						Same. - Fl
14			ND			Light Brown fine SAND, little silt, trace clay, moist. - LACUSTRINE -
16						Bottom of test Pit at 15.0 ft.
18						Backfilled test pit to ground surface.
20						

Groundwater Data						Summary	
			Depth			Overburden (Lin FT)	15.0
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water	Rock Cored (Lin FT)	NA
11/17/2020	NA	NA	NA	15 ft.	No		

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Environmental Test Pit Log

TP20-11

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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:	11/17/2020
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Finish	11/17/2020
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			Brown GRAVEL, little coarse to fine sand, trace silt, damp.
					2.0	Gray GRAVEL, some coarse to fine sand, trace silt, damp. - FILL -
2						Gray buidling debris, brick,wood, plastic, metal, rock boulders, and concrete rubble.
						- FILL -
			ND			
4						
6						
8						Same. - FILL-
			ND			
10						
			ND			
12						Same.
14			ND			Same. - FILL -
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
11/17/2020	NA	NA	NA	16 ft.	No		

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Environmental Test Pit Log

TP20-12

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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:	11/17/2020
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Finish	11/17/2020
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			Brown GRAVEL, little coarse to fine sand, trace silt, damp.
						Gray GRAVEL, some coarse to fine sand, trace silt, damp. - FILL -
					2.0	
2						Light brown fine SAND, little silt, trace clay, damp..
						- LACUSTRINE -
			ND			
4						
6						
8						
10						
12						
14						
16						
18						
20						

Groundwater Data						Summary	
			Depth			Overburden (Lin FT)	6.0
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water	Rock Cored (Lin FT)	NA
11/17/2020	NA	NA	NA	6 ft.	No		

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Environmental Test Pit Log

TP20-13

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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			
Type:	NA	NA	NA	Excavator:	CAT 250	Elevation:	
Inside Diameter (IN):	NA	NA	NA	Reach:	16 feet	Datum:	
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Start:	11/17/2020
Hammer Fall (IN):	NA	NA	NA	Other:		Finish	11/17/2020
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			Brown GRAVEL, little coarse to fine sand, trace silt, damp.
						Gray GRAVEL, some coarse to fine sand, trace silt, damp. - FILL -
					2.0	
2						Gray construction debris, railroad ties, brick,steel cable, wood, and massive concrete rubble.
						- FILL -
			ND			
4						
6						Same - FILL -
					7.0	
8						Gray fine SAND, little silt, trace clay, damp.
			ND			- LACUSTRINE -
10						
			ND			
12						Same.
14			ND			Same. - LACUSTRINE -
16						
						Bottom of test Pit at 14.0 ft.
18						
						Backfilled test pit to ground surface.
20						

Groundwater Data						Summary	
			Depth			Overburden (Lin FT)	14.0
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water	Rock Cored (Lin FT)	NA
11/17/2020	NA	NA	NA	14 ft.	Yes at 6.0 feet		

Environmental Test Pit Log

TP20-14

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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:	11/17/2020
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Finish	11/17/2020
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			Brown GRAVEL, little coarse to fine sand, trace silt, damp.
					2.0	Gray GRAVEL, some coarse to fine sand, trace silt, damp. - FILL -
2						Gray buidling debris, brick,wood, ash, cinders, rock, and massive sections of concrete rubble. - FILL -
			ND			
4						Potential petroleum odors at approximately 4 feet.
6						Water enters test pit excavation at approximately 6.0 ft.
8						Same. - FILL-
			ND			
10						
			ND			
12						Same. - Fl
14			ND			Same. - FILL -
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
11/17/2020	NA	NA	NA	14 ft.	Yes at 6.0 feet

Summary

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

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Environmental Test Pit Log

TP20-15

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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			
Type:	NA	NA	NA	Excavator:	CAT 250	Elevation:	
Inside Diameter (IN):	NA	NA	NA	Reach:	16 feet	Datum:	
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Start:	11/17/2020
Hammer Fall (IN):	NA	NA	NA	Other:		Finish	11/17/2020
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	Dark brown coarse to fine sand, trace silt, with root fragments, damp. - TOPSOIL -
						Gray GRAVEL, some coarse to fine sand, trace silt, damp. - FILL -
2					2	
						Road construction debris, pavement, rock, concrete, wood, and brick, damp.
			ND			
4						- FILL -
6						Concrete rubble and slabs of concrete - FILL -
						refusal of excavator at 6.0 ft.
						Backfilled test pit to ground surface.
8						
10						
12						
14						
16						
18						
20						

Groundwater Data						Summary	
			Depth			Overburden (Lin FT)	6.0
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water	Rock Cored (Lin FT)	NA
11/17/2020	NA	NA	NA	6 ft.	No		

Environmental Test Pit Log

TP20-16

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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			
Type:	NA	NA	NA	Excavator:	CAT 250	Elevation:	
Inside Diameter (IN):	NA	NA	NA	Reach:	16 feet	Datum:	
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Start:	11/17/2020
Hammer Fall (IN):	NA	NA	NA	Other:		Finish	11/17/2020
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			Brown GRAVEL, little coarse to fine sand, trace silt, damp.
						Brown coarse to fine SAND, little GRAVEL, trace silt, damp. - FILL -
					2.0	
2						Gray buidling debris, brick,wood, ash, cinders, rock boulders, and concrete rubble.
						- FILL -
			ND			
4						Possible petroleum and or solvent odor at approximately 4 feet.
6						
8						Same. - FILL-
			ND			
10						
			ND			
12						Same. - Fl
14			ND			Same.
16						Bottom of test Pit at 16.0 ft.
18						Backfilled test pit to ground surface.
20						

Groundwater Data

			Depth		
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water
11/17/2020	NA	NA	NA	16 ft.	No

Summary

Overburden (Lin FT)	16.0
Rock Cored (Lin FT)	NA

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Environmental Test Pit Log

TP20-17

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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			
Type:	NA	NA	NA	Excavator:	CAT 250	Elevation:	
Inside Diameter (IN):	NA	NA	NA	Reach:	16 feet	Datum:	
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Start:	11/17/2020
Hammer Fall (IN):	NA	NA	NA	Other:		Finish	11/17/2020
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			Dark brown SILT,with brick fragments and root fibers, damp.
						- FILL-
					2.0	
2						Light brown fine SAND, little silt, trace clay, damp.
						- LACUSTRINE -
			ND			
4						Same, except with brown silt, seams.
6						
8						Same. - LACUSTRINE-
			ND			
10						
			ND			
12						
14			ND			Same. - LACUSTRINE -
16						
						Bottom of test Pit at 15.5 ft.
18						
						Backfilled test pit to ground surface.
20						

Groundwater Data						Summary	
			Depth			Overburden (Lin FT)	15.5
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water	Rock Cored (Lin FT)	NA
11/17/2020	NA	NA	NA	15.5 ft.	No		

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Environmental Test Pit Log

TP20-18

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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			
Type:	NA	NA	NA	Excavator:	CAT 250	Elevation:	
Inside Diameter (IN):	NA	NA	NA	Reach:	16 feet	Datum:	
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Start:	11/17/2020
Hammer Fall (IN):	NA	NA	NA	Other:		Finish	11/17/2020
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	dark brown fine sand, trace clay, with root fibers, damp. - TOPSOIL -
					1	Brown GRAVEL, little coarse to fine sand, damp. - FILL -
2						Light brown fine SAND, little silt, trace clay, damp. - LACUSTRINE -
4			ND			Same. - LACUSTRINE -
6						- LACUSTRINE -
8						Bottom of test Pit at 6.0 ft. Backfilled test Pit to ground surface.
10						
12						
14						
16						
18						
20						

Groundwater Data

Date	Time	Elapsed Time (HR)	Depth: Bottom Of Casing	Depth: Bottom Of Hole	Depth: Water
11/17/2020	NA	NA	NA	6 ft.	No

Summary

Overburden (Lin FT)	6.0
Rock Cored (Lin FT)	NA

Environmental Test Pit Log

TP20-19

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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:	11/17/2020
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Finish	11/17/2020
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			Gray SILT, little fine sand, trace clay, damp.
						- FILL-
					2.0	
2						Light brown fine SAND, little silt, trace clay, damp.
						- LACUSTRINE -
			ND			
4						Same. - FILL -
6						- FILL -
						Bottom of test Pit at 6.0 ft.
8						Backfilled test Pit to ground surface.
10						
12						
14						
16						
18						
20						

Groundwater Data						Summary	
			Depth			Overburden (Lin FT)	6.0
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water	Rock Cored (Lin FT)	NA
11/17/2020	NA	NA	NA	6 ft.	No		

Environmental Test Pit Log

TP20-20

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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:	11/17/2020
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Finish	11/17/2020
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			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						
8						Same. - FILL-
			ND			
10						
			ND			
12						Same. - Fl
14			ND			Same.
16						
						Bottom of test Pit at 14.0 ft.
18						
						Backfilled test pit to ground surface.
20						

Groundwater Data						Summary	
			Depth			Overburden (Lin FT)	14.0
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water	Rock Cored (Lin FT)	NA
11/17/2020	NA	NA	NA	14 ft.	No		

Environmental Test Pit Log

TP20-21

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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			
Type:	NA	NA	NA	Excavator:	CAT 250	Elevation:	
Inside Diameter (IN):	NA	NA	NA	Reach:	16 feet	Datum:	
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Start:	11/17/2020
Hammer Fall (IN):	NA	NA	NA	Other:		Finish	11/17/2020
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			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						
8						Same. - FILL-
			ND			
10						
			ND			
12						Same. - Fl
14			ND			Same.
16						
						Bottom of test Pit at 14.0 ft.
18						
						Backfilled test pit to ground surface.
20						

Groundwater Data						Summary	
			Depth			Overburden (Lin FT)	14.0
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water	Rock Cored (Lin FT)	NA
11/17/2020	NA	NA	NA	14 ft.	No		

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Environmental Test Pit Log

TP20-22

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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			
Type:	NA	NA	NA	Excavator:	CAT 250	Elevation:	
Inside Diameter (IN):	NA	NA	NA	Reach:	16 feet	Datum:	
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Start:	11/17/2020
Hammer Fall (IN):	NA	NA	NA	Other:		Finish	11/17/2020
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 fine SAND, lillte silt, trace clay, damp.
						- LACUSTRINE -
2						
			ND			
4						Same, except with brown clay seams.
6						
8						Same. - LACUSTRINE-
			ND			
10						
			ND			Same. - LACUSTRINE-
12						
14						Bottom of test Pit at 13.0 ft.
16						Backfilled test Pit to ground surface.
18						
20						

Groundwater Data						Summary	
			Depth			Overburden (Lin FT)	13.0
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water	Rock Cored (Lin FT)	NA
11/17/2020	NA	NA	NA	13 ft.	No		

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Environmental Test Pit Log

TP20-23

Project:	Phase II Environmental Site Assessment - Lot ! Of Wambach Farm Property, Town of Irondequoit, New Y	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:	11/17/2020
Hemmer Weight (LB):	NA	NA	NA	Bucket:	3.5 cubic yards	Finish	11/17/2020
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			Brown GRAVEL, little coarse to fine sand, trace silt, damp.
						- FILL -
					2.0	Brown GRAVEL, with railroad track steel, concrete, rock, plastic, damp.
2						- FILL -
			ND			
4						Gray concrete rubble, metal wood debris, glass, plastic, damp.
6						- FILL -
						Same.
8						Refusal of the excavator at approximately 8.0 ft.
10						Bottom of test pit at 8.0 ft.
						Backfilled test Pit to ground surface.
12						
14						
16						
18						
20						

Groundwater Data						Summary	
			Depth			Overburden (Lin FT)	8.0
Date	Time	Elapsed Time (HR)	Bottom Of Casing	Bottom Of Hole	Water	Rock Cored (Lin FT)	NA
11/17/2020	NA	NA	NA	8 ft.	No		

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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

205510

Referencing

Lot 1 of Wambach Farm Property Irondequoit NY

Prepared

Monday, November 30, 2020

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: 205510

Client: **Bergmann Associates**

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Sample Identifier:	TP20-2 (6-7 ft.)		
Lab Sample ID:	205510-01	**Date Sampled:**	11/17/2020
Matrix:	Soil	**Date Received:**	11/18/2020

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 329	ug/Kg		11/20/2020 00:40
Acenaphthylene	< 329	ug/Kg		11/20/2020 00:40
Anthracene	< 329	ug/Kg		11/20/2020 00:40
Benzo (a) anthracene	**334**	ug/Kg		11/20/2020 00:40
Benzo (a) pyrene	**331**	ug/Kg		11/20/2020 00:40
Benzo (b) fluoranthene	< 329	ug/Kg		11/20/2020 00:40
Benzo (g,h,i) perylene	< 329	ug/Kg		11/20/2020 00:40
Benzo (k) fluoranthene	< 329	ug/Kg		11/20/2020 00:40
Chrysene	**377**	ug/Kg		11/20/2020 00:40
Dibenz (a,h) anthracene	< 329	ug/Kg		11/20/2020 00:40
Fluoranthene	**622**	ug/Kg		11/20/2020 00:40
Fluorene	< 329	ug/Kg		11/20/2020 00:40
Indeno (1,2,3-cd) pyrene	< 329	ug/Kg		11/20/2020 00:40
Naphthalene	< 329	ug/Kg		11/20/2020 00:40
Phenanthrene	**455**	ug/Kg		11/20/2020 00:40
Pyrene	**502**	ug/Kg		11/20/2020 00:40

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**60.9**	43.3 - 79.9		11/20/2020 00:40
Nitrobenzene-d5	**51.7**	39.8 - 77.5		11/20/2020 00:40
Terphenyl-d14	**53.7**	43.1 - 87.7		11/20/2020 00:40

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 11/19/2020
Data File: B50821.D

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 7.56	ug/Kg		11/19/2020 19:00
1,3,5-Trimethylbenzene	< 7.56	ug/Kg		11/19/2020 19:00

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 205510

Client: **Bergmann Associates**

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Sample Identifier:	TP20-2 (6-7 ft.)		
Lab Sample ID:	205510-01	**Date Sampled:**	11/17/2020
Matrix:	Soil	**Date Received:**	11/18/2020

Benzene	< 7.56	ug/Kg		11/19/2020 19:00
Ethylbenzene	< 7.56	ug/Kg		11/19/2020 19:00
Isopropylbenzene	< 7.56	ug/Kg		11/19/2020 19:00
m,p-Xylene	< 7.56	ug/Kg		11/19/2020 19:00
Methyl tert-butyl Ether	< 7.56	ug/Kg		11/19/2020 19:00
Naphthalene	< 18.9	ug/Kg		11/19/2020 19:00
n-Butylbenzene	< 7.56	ug/Kg		11/19/2020 19:00
n-Propylbenzene	< 7.56	ug/Kg		11/19/2020 19:00
o-Xylene	< 7.56	ug/Kg		11/19/2020 19:00
p-Isopropyltoluene	< 7.56	ug/Kg		11/19/2020 19:00
sec-Butylbenzene	< 7.56	ug/Kg		11/19/2020 19:00
tert-Butylbenzene	< 7.56	ug/Kg		11/19/2020 19:00
Toluene	< 7.56	ug/Kg		11/19/2020 19:00

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**92.7**	61 - 146		11/19/2020 19:00
4-Bromofluorobenzene	**89.5**	48.8 - 138		11/19/2020 19:00
Pentafluorobenzene	**101**	65.4 - 141		11/19/2020 19:00
Toluene-D8	**94.0**	62.8 - 133		11/19/2020 19:00

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

Data File: x74940.D

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

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 205510

Client: **Bergmann Associates**

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Sample Identifier:	TP20-7 (0.5-0.7 ft.)		
Lab Sample ID:	205510-02	**Date Sampled:**	11/17/2020
Matrix:	Soil	**Date Received:**	11/18/2020

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-T	<269	ug/Kg		11/20/2020
2,4,5-TP (Silvex)	<269	ug/Kg		11/20/2020
2,4-D	<269	ug/Kg		11/20/2020

Method Reference(s): EPA 8151A
Subcontractor ELAP ID: 11148

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0518**	mg/Kg		11/24/2020 10:39

Method Reference(s): EPA 7471B
Preparation Date: 11/19/2020
Data File: Hg201124A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**3.75**	mg/Kg		11/25/2020 00:47
Barium	**27.3**	mg/Kg		11/25/2020 00:47
Cadmium	**1.43**	mg/Kg		11/25/2020 00:47
Chromium	**8.06**	mg/Kg		11/25/2020 00:47
Lead	**42.6**	mg/Kg		11/25/2020 00:47
Selenium	< 1.33	mg/Kg		11/25/2020 00:47
Silver	< 0.667	mg/Kg		11/25/2020 00:47

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 11/23/2020

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**7.58**	ug/Kg	P	11/20/2020 16:19
4,4-DDE	**4.62**	ug/Kg		11/20/2020 16:19

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 205510

Client: **Bergmann Associates**

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Sample Identifier:	TP20-7 (0.5-0.7 ft.)		
Lab Sample ID:	205510-02	**Date Sampled:**	11/17/2020
Matrix:	Soil	**Date Received:**	11/18/2020

4,4-DDT	**7.41**	ug/Kg		P	11/20/2020 16:19
Aldrin	**13.4**	ug/Kg		P	11/20/2020 16:19
alpha-BHC	**4.09**	ug/Kg		P	11/20/2020 16:19
beta-BHC	**15.1**	ug/Kg			11/20/2020 16:19
cis-Chlordane	< 3.71	ug/Kg			11/20/2020 16:19
delta-BHC	**10.7**	ug/Kg		P	11/20/2020 16:19
Dieldrin	< 3.71	ug/Kg			11/20/2020 16:19
Endosulfan I	**16.7**	ug/Kg			11/20/2020 16:19
Endosulfan II	< 3.71	ug/Kg			11/20/2020 16:19
Endosulfan Sulfate	< 3.71	ug/Kg			11/20/2020 16:19
Endrin	**8.04**	ug/Kg		P	11/20/2020 16:19
Endrin Aldehyde	**14.7**	ug/Kg		P	11/20/2020 16:19
Endrin Ketone	**29.1**	ug/Kg		P	11/20/2020 16:19
gamma-BHC (Lindane)	< 3.71	ug/Kg			11/20/2020 16:19
Heptachlor	**6.83**	ug/Kg		P	11/20/2020 16:19
Heptachlor Epoxide	< 3.71	ug/Kg			11/20/2020 16:19
Methoxychlor	**65.4**	ug/Kg		P	11/20/2020 16:19
Toxaphene	< 37.1	ug/Kg			11/20/2020 16:19
trans-Chlordane	**17.9**	ug/Kg			11/20/2020 16:19

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
Decachlorobiphenyl (1)	**1310**	16.8 - 119	*	11/20/2020 16:19
Tetrachloro-m-xylene (1)	**131**	20.8 - 112	*	11/20/2020 16:19

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 11/19/2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 205510

Client: **Bergmann Associates**

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Sample Identifier:	TP20-10 (5-5.5 ft.)		
Lab Sample ID:	205510-03	**Date Sampled:**	11/17/2020
Matrix:	Soil	**Date Received:**	11/18/2020

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-T	<247	ug/Kg		11/20/2020
2,4,5-TP (Silvex)	<247	ug/Kg		11/20/2020
2,4-D	<247	ug/Kg		11/20/2020

Method Reference(s): EPA 8151A
Subcontractor ELAP ID: 11148

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.200**	mg/Kg		11/24/2020 10:45

Method Reference(s): EPA 7471B
Preparation Date: 11/19/2020
Data File: Hg201124A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**23.5**	mg/Kg		11/25/2020 00:52
Barium	**192**	mg/Kg		11/25/2020 00:52
Cadmium	**5.43**	mg/Kg		11/25/2020 00:52
Chromium	**14.9**	mg/Kg		11/25/2020 00:52
Lead	**439**	mg/Kg		11/25/2020 00:52
Selenium	< 1.34	mg/Kg		11/25/2020 00:52
Silver	**0.870**	mg/Kg		11/25/2020 00:52

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 11/23/2020

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**20.7**	ug/Kg	P	11/20/2020 16:38
4,4-DDE	**12.9**	ug/Kg		11/20/2020 16:38

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 205510

Client: **Bergmann Associates**

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Sample Identifier:	TP20-10 (5-5.5 ft.)		
Lab Sample ID:	205510-03	**Date Sampled:**	11/17/2020
Matrix:	Soil	**Date Received:**	11/18/2020

4,4-DDT	**46.5**	ug/Kg		11/20/2020	16:38
Aldrin	**3.87**	ug/Kg	P	11/20/2020	16:38
alpha-BHC	< 3.82	ug/Kg		11/20/2020	16:38
beta-BHC	< 3.82	ug/Kg		11/20/2020	16:38
cis-Chlordane	< 3.82	ug/Kg		11/20/2020	16:38
delta-BHC	**4.90**	ug/Kg		11/20/2020	16:38
Dieldrin	**17.7**	ug/Kg	P	11/20/2020	16:38
Endosulfan I	< 3.82	ug/Kg		11/20/2020	16:38
Endosulfan II	< 3.82	ug/Kg		11/20/2020	16:38
Endosulfan Sulfate	**20.4**	ug/Kg	P	11/20/2020	16:38
Endrin	**4.90**	ug/Kg		11/20/2020	16:38
Endrin Aldehyde	**6.32**	ug/Kg	P	11/20/2020	16:38
Endrin Ketone	**6.61**	ug/Kg	P	11/20/2020	16:38
gamma-BHC (Lindane)	**4.00**	ug/Kg	P	11/20/2020	16:38
Heptachlor	< 3.82	ug/Kg		11/20/2020	16:38
Heptachlor Epoxide	< 3.82	ug/Kg		11/20/2020	16:38
Methoxychlor	**5.20**	ug/Kg	P	11/20/2020	16:38
Toxaphene	< 38.2	ug/Kg		11/20/2020	16:38
trans-Chlordane	**4.62**	ug/Kg		11/20/2020	16:38

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
Decachlorobiphenyl (1)	**54.2**	16.8 - 119		11/20/2020 16:38
Tetrachloro-m-xylene (1)	**75.4**	20.8 - 112		11/20/2020 16:38

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 11/19/2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 205510

Client: **Bergmann Associates**

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Sample Identifier:	TP20-14 (8.5-9 ft.)		
Lab Sample ID:	205510-04	**Date Sampled:**	11/17/2020
Matrix:	Soil	**Date Received:**	11/18/2020

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	**322**	ug/Kg		11/20/2020 01:10
Acenaphthylene	< 294	ug/Kg		11/20/2020 01:10
Anthracene	**641**	ug/Kg		11/20/2020 01:10
Benzo (a) anthracene	**1500**	ug/Kg		11/20/2020 01:10
Benzo (a) pyrene	**1230**	ug/Kg		11/20/2020 01:10
Benzo (b) fluoranthene	**1130**	ug/Kg		11/20/2020 01:10
Benzo (g,h,i) perylene	**779**	ug/Kg		11/20/2020 01:10
Benzo (k) fluoranthene	**786**	ug/Kg		11/20/2020 01:10
Chrysene	**1260**	ug/Kg		11/20/2020 01:10
Dibenz (a,h) anthracene	< 294	ug/Kg		11/20/2020 01:10
Fluoranthene	**3330**	ug/Kg		11/20/2020 01:10
Fluorene	**334**	ug/Kg		11/20/2020 01:10
Indeno (1,2,3-cd) pyrene	**690**	ug/Kg		11/20/2020 01:10
Naphthalene	< 294	ug/Kg		11/20/2020 01:10
Phenanthrene	**2660**	ug/Kg		11/20/2020 01:10
Pyrene	**2440**	ug/Kg		11/20/2020 01:10

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**56.7**	43.3 - 79.9		11/20/2020 01:10
Nitrobenzene-d5	**48.2**	39.8 - 77.5		11/20/2020 01:10
Terphenyl-d14	**50.7**	43.1 - 87.7		11/20/2020 01:10

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 11/19/2020
Data File: B50822.D

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	**62.8**	ug/Kg		11/19/2020 18:37
1,3,5-Trimethylbenzene	**26.7**	ug/Kg		11/19/2020 18:37

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 205510

Client: **Bergmann Associates**

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Sample Identifier:	TP20-14 (8.5-9 ft.)		
Lab Sample ID:	205510-04	**Date Sampled:**	11/17/2020
Matrix:	Soil	**Date Received:**	11/18/2020

Benzene	< 7.61	ug/Kg	11/19/2020	18:37
Ethylbenzene	< 7.61	ug/Kg	11/19/2020	18:37
Isopropylbenzene	< 7.61	ug/Kg	11/19/2020	18:37
m,p-Xylene	**14.9**	ug/Kg	11/19/2020	18:37
Methyl tert-butyl Ether	< 7.61	ug/Kg	11/19/2020	18:37
Naphthalene	< 19.0	ug/Kg	11/19/2020	18:37
n-Butylbenzene	< 7.61	ug/Kg	11/19/2020	18:37
n-Propylbenzene	**8.22**	ug/Kg	11/19/2020	18:37
o-Xylene	**12.4**	ug/Kg	11/19/2020	18:37
p-Isopropyltoluene	< 7.61	ug/Kg	11/19/2020	18:37
sec-Butylbenzene	< 7.61	ug/Kg	11/19/2020	18:37
tert-Butylbenzene	< 7.61	ug/Kg	11/19/2020	18:37
Toluene	< 7.61	ug/Kg	11/19/2020	18:37

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**97.2**	61 - 146		11/19/2020	18:37
4-Bromofluorobenzene	**93.9**	48.8 - 138		11/19/2020	18:37
Pentafluorobenzene	**101**	65.4 - 141		11/19/2020	18:37
Toluene-D8	**110**	62.8 - 133		11/19/2020	18:37

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

Data File: x74939.D

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

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 205510

Client: **Bergmann Associates**

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Sample Identifier:	TP20-11 (6-7 ft.)		
Lab Sample ID:	205510-05	**Date Sampled:**	11/17/2020
Matrix:	Soil	**Date Received:**	11/18/2020

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-T	<190	ug/Kg		11/20/2020
2,4,5-TP (Silvex)	<190	ug/Kg		11/20/2020
2,4-D	<190	ug/Kg		11/20/2020

Method Reference(s): EPA 8151A
Subcontractor ELAP ID: 11148

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.111**	mg/Kg		11/24/2020 10:47

Method Reference(s): EPA 7471B
Preparation Date: 11/19/2020
Data File: Hg201124A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**3.95**	mg/Kg		11/25/2020 01:11
Barium	**61.1**	mg/Kg		11/25/2020 01:11
Cadmium	**1.78**	mg/Kg		11/25/2020 01:11
Chromium	**7.60**	mg/Kg		11/25/2020 01:11
Lead	**95.1**	mg/Kg		11/25/2020 01:11
Selenium	< 1.03	mg/Kg		11/25/2020 01:11
Silver	< 0.514	mg/Kg		11/25/2020 01:11

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 11/23/2020

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.03	ug/Kg		11/23/2020 14:54
4,4-DDE	< 3.03	ug/Kg		11/23/2020 14:54

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 205510

Client: **Bergmann Associates**

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Sample Identifier:	TP20-11 (6-7 ft.)		
Lab Sample ID:	205510-05	**Date Sampled:**	11/17/2020
Matrix:	Soil	**Date Received:**	11/18/2020

4,4-DDT	< 3.03	ug/Kg		11/23/2020 14:54
Aldrin	< 3.03	ug/Kg		11/23/2020 14:54
alpha-BHC	< 3.03	ug/Kg		11/23/2020 14:54
beta-BHC	< 3.03	ug/Kg		11/23/2020 14:54
cis-Chlordane	< 3.03	ug/Kg		11/23/2020 14:54
delta-BHC	< 3.03	ug/Kg		11/23/2020 14:54
Dieldrin	< 3.03	ug/Kg		11/23/2020 14:54
Endosulfan I	< 3.03	ug/Kg		11/23/2020 14:54
Endosulfan II	< 3.03	ug/Kg		11/23/2020 14:54
Endosulfan Sulfate	< 3.03	ug/Kg		11/23/2020 14:54
Endrin	< 3.03	ug/Kg		11/23/2020 14:54
Endrin Aldehyde	< 3.03	ug/Kg		11/23/2020 14:54
Endrin Ketone	< 3.03	ug/Kg		11/23/2020 14:54
gamma-BHC (Lindane)	< 3.03	ug/Kg		11/23/2020 14:54
Heptachlor	< 3.03	ug/Kg		11/23/2020 14:54
Heptachlor Epoxide	< 3.03	ug/Kg		11/23/2020 14:54
Methoxychlor	< 3.03	ug/Kg		11/23/2020 14:54
Toxaphene	< 30.3	ug/Kg		11/23/2020 14:54
trans-Chlordane	< 3.03	ug/Kg		11/23/2020 14:54

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
Decachlorobiphenyl (1)	**26.1**	16.8 - 119		11/23/2020 14:54
Tetrachloro-m-xylene (1)	**21.1**	20.8 - 112		11/23/2020 14:54

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 11/19/2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 205510

Client: **Bergmann Associates**

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Sample Identifier:	TP20-16 (8-8.5 ft.)		
Lab Sample ID:	205510-06	**Date Sampled:**	11/17/2020
Matrix:	Soil	**Date Received:**	11/18/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.156**	mg/Kg		11/24/2020 10:49

Method Reference(s): EPA 7471B
Preparation Date: 11/19/2020
Data File: Hg201124A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**3.96**	mg/Kg		11/25/2020 01:15
Barium	**45.9**	mg/Kg		11/25/2020 01:15
Cadmium	**1.75**	mg/Kg		11/25/2020 01:15
Chromium	**8.46**	mg/Kg		11/25/2020 01:15
Lead	**120**	mg/Kg		11/25/2020 01:15
Selenium	< 1.11	mg/Kg		11/25/2020 01:15
Silver	< 0.554	mg/Kg		11/25/2020 01:15

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 11/23/2020

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**26.9**	ug/Kg		11/23/2020 15:13
4,4-DDE	**7.95**	ug/Kg		11/23/2020 15:13
4,4-DDT	**3.53**	ug/Kg		11/23/2020 15:13
Aldrin	< 2.98	ug/Kg		11/23/2020 15:13
alpha-BHC	< 2.98	ug/Kg		11/23/2020 15:13
beta-BHC	< 2.98	ug/Kg		11/23/2020 15:13
cis-Chlordane	**4.58**	ug/Kg	P	11/23/2020 15:13
delta-BHC	< 2.98	ug/Kg		11/23/2020 15:13
Dieldrin	**6.34**	ug/Kg	P	11/23/2020 15:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 205510

Client: **Bergmann Associates**

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Sample Identifier:	TP20-16 (8-8.5 ft.)		
Lab Sample ID:	205510-06	**Date Sampled:**	11/17/2020
Matrix:	Soil	**Date Received:**	11/18/2020

Endosulfan I	< 2.98	ug/Kg			11/23/2020 15:13
Endosulfan II	< 2.98	ug/Kg			11/23/2020 15:13
Endosulfan Sulfate	< 2.98	ug/Kg			11/23/2020 15:13
Endrin	< 2.98	ug/Kg			11/23/2020 15:13
Endrin Aldehyde	< 2.98	ug/Kg			11/23/2020 15:13
Endrin Ketone	< 2.98	ug/Kg			11/23/2020 15:13
gamma-BHC (Lindane)	< 2.98	ug/Kg			11/23/2020 15:13
Heptachlor	< 2.98	ug/Kg			11/23/2020 15:13
Heptachlor Epoxide	< 2.98	ug/Kg			11/23/2020 15:13
Methoxychlor	< 2.98	ug/Kg			11/23/2020 15:13
Toxaphene	< 29.8	ug/Kg			11/23/2020 15:13
trans-Chlordane	**8.23**	ug/Kg		P	11/23/2020 15:13

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**93.4**	16.8 - 119		11/23/2020 15:13
Tetrachloro-m-xylene (1)	**47.2**	20.8 - 112		11/23/2020 15:13

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 11/19/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 67.9	ug/Kg		11/19/2020 18:15
1,1,2,2-Tetrachloroethane	< 67.9	ug/Kg		11/19/2020 18:15
1,1,2-Trichloroethane	< 67.9	ug/Kg		11/19/2020 18:15
1,1-Dichloroethane	< 67.9	ug/Kg		11/19/2020 18:15
1,1-Dichloroethene	< 67.9	ug/Kg		11/19/2020 18:15
1,2,3-Trichlorobenzene	< 170	ug/Kg		11/19/2020 18:15
1,2,4-Trichlorobenzene	< 170	ug/Kg		11/19/2020 18:15
1,2-Dibromo-3-Chloropropane	< 340	ug/Kg		11/19/2020 18:15
1,2-Dibromoethane	< 67.9	ug/Kg		11/19/2020 18:15
1,2-Dichlorobenzene	< 67.9	ug/Kg		11/19/2020 18:15

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 205510

Client: **Bergmann Associates**

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Sample Identifier:	TP20-16 (8-8.5 ft.)		
Lab Sample ID:	205510-06	**Date Sampled:**	11/17/2020
Matrix:	Soil	**Date Received:**	11/18/2020

1,2-Dichloroethane	< 67.9	ug/Kg	11/19/2020	18:15
1,2-Dichloropropane	< 67.9	ug/Kg	11/19/2020	18:15
1,3-Dichlorobenzene	< 67.9	ug/Kg	11/19/2020	18:15
1,4-Dichlorobenzene	< 67.9	ug/Kg	11/19/2020	18:15
1,4-Dioxane	< 679	ug/Kg	11/19/2020	18:15
2-Butanone	< 340	ug/Kg	11/19/2020	18:15
2-Hexanone	< 170	ug/Kg	11/19/2020	18:15
4-Methyl-2-pentanone	< 170	ug/Kg	11/19/2020	18:15
Acetone	< 340	ug/Kg	11/19/2020	18:15
Benzene	< 67.9	ug/Kg	11/19/2020	18:15
Bromochloromethane	< 170	ug/Kg	11/19/2020	18:15
Bromodichloromethane	< 67.9	ug/Kg	11/19/2020	18:15
Bromoform	< 170	ug/Kg	11/19/2020	18:15
Bromomethane	< 67.9	ug/Kg	11/19/2020	18:15
Carbon disulfide	< 67.9	ug/Kg	11/19/2020	18:15
Carbon Tetrachloride	< 67.9	ug/Kg	11/19/2020	18:15
Chlorobenzene	< 67.9	ug/Kg	11/19/2020	18:15
Chloroethane	< 67.9	ug/Kg	11/19/2020	18:15
Chloroform	< 67.9	ug/Kg	11/19/2020	18:15
Chloromethane	< 67.9	ug/Kg	11/19/2020	18:15
cis-1,2-Dichloroethene	< 67.9	ug/Kg	11/19/2020	18:15
cis-1,3-Dichloropropene	< 67.9	ug/Kg	11/19/2020	18:15
Cyclohexane	< 340	ug/Kg	11/19/2020	18:15
Dibromochloromethane	< 67.9	ug/Kg	11/19/2020	18:15
Dichlorodifluoromethane	< 67.9	ug/Kg	11/19/2020	18:15
Ethylbenzene	< 67.9	ug/Kg	11/19/2020	18:15
Freon 113	< 67.9	ug/Kg	11/19/2020	18:15
Isopropylbenzene	< 67.9	ug/Kg	11/19/2020	18:15
m,p-Xylene	< 67.9	ug/Kg	11/19/2020	18:15
Methyl acetate	< 67.9	ug/Kg	11/19/2020	18:15

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 205510

Client: **Bergmann Associates**

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Sample Identifier:	TP20-16 (8-8.5 ft.)		
Lab Sample ID:	205510-06	**Date Sampled:**	11/17/2020
Matrix:	Soil	**Date Received:**	11/18/2020

Methyl tert-butyl Ether	< 67.9	ug/Kg	11/19/2020	18:15
Methylcyclohexane	< 67.9	ug/Kg	11/19/2020	18:15
Methylene chloride	< 170	ug/Kg	11/19/2020	18:15
o-Xylene	< 67.9	ug/Kg	11/19/2020	18:15
Styrene	< 170	ug/Kg	11/19/2020	18:15
Tetrachloroethene	< 67.9	ug/Kg	11/19/2020	18:15
Toluene	< 67.9	ug/Kg	11/19/2020	18:15
trans-1,2-Dichloroethene	< 67.9	ug/Kg	11/19/2020	18:15
trans-1,3-Dichloropropene	< 67.9	ug/Kg	11/19/2020	18:15
Trichloroethene	< 67.9	ug/Kg	11/19/2020	18:15
Trichlorofluoromethane	< 67.9	ug/Kg	11/19/2020	18:15
Vinyl chloride	< 67.9	ug/Kg	11/19/2020	18:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**117**	61 - 146		11/19/2020	18:15
4-Bromofluorobenzene	**116**	48.8 - 138		11/19/2020	18:15
Pentafluorobenzene	**95.3**	65.4 - 141		11/19/2020	18:15
Toluene-D8	**97.9**	62.8 - 133		11/19/2020	18:15

Reporting limit elevated due to non-target compounds.

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

Data File: x74938.D

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

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 205510

Client: **Bergmann Associates**

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Sample Identifier:	TP20-18 (0.5-0.7 ft.)		
Lab Sample ID:	205510-07	**Date Sampled:**	11/17/2020
Matrix:	Soil	**Date Received:**	11/18/2020

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-T	<213	ug/Kg		11/20/2020
2,4,5-TP (Silvex)	<213	ug/Kg		11/20/2020
2,4-D	<213	ug/Kg		11/20/2020

Method Reference(s): EPA 8151A
Subcontractor ELAP ID: 11148

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0735**	mg/Kg		11/24/2020 10:51

Method Reference(s): EPA 7471B
Preparation Date: 11/19/2020
Data File: Hg201124A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**8.46**	mg/Kg	D	11/25/2020 01:20
Barium	**78.7**	mg/Kg		11/25/2020 01:20
Cadmium	**3.37**	mg/Kg	D	11/25/2020 01:20
Chromium	**30.7**	mg/Kg		11/25/2020 01:20
Lead	**255**	mg/Kg		11/25/2020 01:20
Selenium	< 1.22	mg/Kg		11/25/2020 01:20
Silver	< 0.608	mg/Kg		11/25/2020 01:20

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 11/23/2020

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**20.6**	ug/Kg		11/20/2020 17:34
4,4-DDE	**60.8**	ug/Kg		11/20/2020 17:34

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 205510

Client: **Bergmann Associates**

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Sample Identifier:	TP20-18 (0.5-0.7 ft.)		
Lab Sample ID:	205510-07	**Date Sampled:**	11/17/2020
Matrix:	Soil	**Date Received:**	11/18/2020

4,4-DDT	**19.9**	ug/Kg		11/20/2020 17:34
Aldrin	< 3.42	ug/Kg		11/20/2020 17:34
alpha-BHC	< 3.42	ug/Kg		11/20/2020 17:34
beta-BHC	< 3.42	ug/Kg		11/20/2020 17:34
cis-Chlordane	< 3.42	ug/Kg		11/20/2020 17:34
delta-BHC	**3.61**	ug/Kg		11/20/2020 17:34
Dieldrin	< 3.42	ug/Kg		11/20/2020 17:34
Endosulfan I	< 3.42	ug/Kg		11/20/2020 17:34
Endosulfan II	< 3.42	ug/Kg		11/20/2020 17:34
Endosulfan Sulfate	< 3.42	ug/Kg		11/20/2020 17:34
Endrin	< 3.42	ug/Kg		11/20/2020 17:34
Endrin Aldehyde	< 3.42	ug/Kg		11/20/2020 17:34
Endrin Ketone	< 3.42	ug/Kg		11/20/2020 17:34
gamma-BHC (Lindane)	< 3.42	ug/Kg		11/20/2020 17:34
Heptachlor	< 3.42	ug/Kg		11/20/2020 17:34
Heptachlor Epoxide	< 3.42	ug/Kg		11/20/2020 17:34
Methoxychlor	< 3.42	ug/Kg		11/20/2020 17:34
Toxaphene	< 34.2	ug/Kg		11/20/2020 17:34
trans-Chlordane	< 3.42	ug/Kg		11/20/2020 17:34

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
Decachlorobiphenyl (1)	**35.8**	16.8 - 119		11/20/2020 17:34
Tetrachloro-m-xylene (1)	**59.2**	20.8 - 112		11/20/2020 17:34

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 11/19/2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Bergmann Associates**

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Lab Project ID: 205510

Matrix: Soil

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed	
Arsenic	<0.500	mg/Kg		11/25/2020	00:34
Barium	<5.00	mg/Kg		11/25/2020	00:34
Cadmium	<0.250	mg/Kg		11/25/2020	00:34
Chromium	<0.500	mg/Kg		11/25/2020	00:34
Lead	<0.500	mg/Kg		11/25/2020	00:34
Selenium	<1.00	mg/Kg		11/25/2020	00:34
Silver	<0.500	mg/Kg		11/25/2020	00:34

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 11/23/2020
QC Batch ID: QC201123soil
QC Number: Blk 1

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: **Bergmann Associates**

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Lab Project ID: 205510

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	123	116	mg/Kg	118	109	96.3	94.5	80 - 120			1.93	20		11/25/2020
Barium	123	116	mg/Kg	128	121	105	104	80 - 120			0.257	20		11/25/2020
Cadmium	49.0	46.3	mg/Kg	54.3	51.1	111	110	80 - 120			0.316	20		11/25/2020
Chromium	123	116	mg/Kg	123	116	100	100	80 - 120			0.306	20		11/25/2020
Lead	123	116	mg/Kg	126	117	103	101	80 - 120			1.49	20		11/25/2020
Selenium	123	116	mg/Kg	112	102	91.0	88.1	80 - 120			3.22	20		11/25/2020
Silver	12.3	11.6	mg/Kg	11.5	10.8	94.1	92.9	80 - 120			1.22	20		11/25/2020

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 11/23/2020
QC Number: 1
QC Batch ID: QC201123soil

Report Prepared Wednesday, November 25, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Sample Spike and Sample Duplicate

Client: **Bergmann Associates** **Lab Project ID:** 205510

Project Reference: Lot 1 of Wambach Farm Property Irondequoit NY

Lab Sample ID: 205510-07 **Date Sampled:** 11/17/2020
Sample Identifier: TP20-18 (0.5-0.7 ft.) **Date Received:** 11/18/2020
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	**8.46**	mg/Kg	163	144	83.5	75 - 125		6.66	23.8	20	*	11/25/2020
Barium	**78.7**	mg/Kg	163	227	91.0	75 - 125		79.4	0.863	20		11/25/2020
Cadmium	**3.37**	mg/Kg	65.0	65.1	95.0	75 - 125		2.03	49.6	20	*	11/25/2020
Chromium	**30.7**	mg/Kg	163	169	85.1	75 - 125		29.2	5.00	20		11/25/2020
Lead	**255**	mg/Kg	163	413	97.5	75 - 125		253	0.883	20		11/25/2020
Selenium	< 1.22	mg/Kg	163	131	80.8	75 - 125		<1.20	NC	20		11/25/2020
Silver	< 0.608	mg/Kg	16.3	13.9	85.4	75 - 125		<0.602	NC	20		11/25/2020

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 11/23/2020
QC Batch ID: QC201123soil

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.

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

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

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

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

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

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

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

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

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

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

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

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

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

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

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

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

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

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

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

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Brygmann	CLIENT:	Same	205510
ADDRESS:	2580 E. Broad St.	ADDRESS:		Quotation #:
CITY: STATE: ZIP		CITY: STATE: ZIP		Email:
PHONE:		PHONE:		
ATTN:	Steve DeMeo	ATTN:		

PROJECT REFERENCE: Lot 1 of Wambach Farm Property Irondequoit NY

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	VOC CP-51	SVOC CP-51	Pesticides	RCRA Metals	Herbicides	8260 VOC-TCL					REMARKS	PARADIGM LAB SAMPLE NUMBER
11/17/2020	0750			TP20-2 (6-7 ft.)	SO	2	X	X										01
11/17/2020	0850			TP20-7 (0.5-0.7 ft.)	SO	2			X	X	X							02
11/17/2020	1050			TP20-10 (5-5.5 ft.)	SO	2			X	X	X							03
11/12/2020	1145			TP20-14 (8.5-9 ft.)	SO	2	X	X										04
11/17/2020	1114			TP20-11 (6-7 ft.)	SO	2			X	X	X							05
11/17/2020	100			TP20-16 (8-8.5 ft.)	SO	2			X	X		X						06
11/17/2020	300			TP20-18 (0.5-0.7 ft.)	SO	2			X	X	X							07

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

Stephen J. DeMeo

	Date/Time
Sampled By	11/17/2020 1146
Relinquished By	11/17/20 1146
Received By	11/18/2020 11:54
Received @ Lab By	4 °C iced 11/18/2020 11:52

Total Cost:

P.I.F.

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

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

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

Lab Project ID: 205510 **Date:** 11/18/2020

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	4°C iced		
Compliant Sample Quantity/Type	X		
Comments			

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

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

1 of 1

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CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:	179 Lake Avenue	ADDRESS:			
CITY: Rochester STATE: NY ZIP: 14608		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:		PHONE: FAX:		STD	OTHER
PROJECT NAME/SITE NAME:	ATTN: Reporting	ATTN:	Accounts Payable	☐ 1 ☐ 2 ☐ 3 ☒ 5	
	COMMENTS: Please email results to reporting@paradigmenv.com			Date Due: 11/30/2020	

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	Herbicides	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	11/17/2020	08:50			205510-02	Soil	1	X		
2	↓	10:50			-03	↓	↓	X		
3		11:14			-05			X		
4		15:00			-07	↓	↓	X		
5										
6										
7										
8										
9										
10										

LAB USE ONLY BELOW THIS LINE

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

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Comments:		
Preservation:	Y ☐	N ☐
Comments:		
Holding Time:	Y ☐	N ☐
Comments:		
Temperature:	Y ☐	N ☐
Comments:		

Client

Sampled By	Date/Time	
JP2	11/18/2020	16:00
Relinquished By	Date/Time	
JCunningham AAL	11/18/20	16:37
Received By	Date/Time	
	11/19/20	00:20
Received By	Date/Time	
Received @ Lab By	Date/Time	

Total Cost:

P.I.F. ☐

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APPENDIX 3

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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

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Test Pit TP20-2 fill soils and fill materials

TP20-6 view looking east

TP20-17 native Lacustrine sand

TP20-23 landfilled fill soils/fill materials