PHASE II ENVIRONMENTAL SITE ASSESSMENT

1100 NIAGARA STREET PROPERTIES
BUFFALO, NEW YORK

Prepared for:
1100 Niagara LLC
58 Tracy St
Buffalo, NY 14201

Prepared by:

1270 Niagara Street
Buffalo, New York 14213

June 2019

Prepared By: Peter J. Gorton, MPH CHCM	**Signature:**	**Date:** June 2019	**Title:** BE3 – PM
Reviewed By: Jason M. Brydges, PE	**Signature:**	**Date:** June 2019	**Title:** BE3 – PM

Table of Contents

1.0 INTRODUCTION....1
1.1 Purpose....1
1.2 Background....1
1.2.1 General Site Setting....1
1.2.2 Physical Setting....1
1.2.3 Historical Use....1
1.2.4 Contaminants of Concern....2
1.3 Scope....2
2.0 FIELD INVESTIGATIONS....3
2.1 Soil Sampling....3
2.2 Soil Screening....4
2.3 Groundwater Assessment....5
2.4 Sampling Rationale....5
3.0 RESULTS....5
3.1 Surface and Subsurface Conditions....5
3.2 Analytical Results....5
3.2.1 Subsurface-Near Surface Soil....6
3.2.2 Groundwater....7
4.0 CONCLUSIONS & RECOMMENDATIONS....7
5.0 WARRANTS AND LIMITATIONS....7
6.0 PROFESSIONAL STATEMENT/SIGNATURE....8

TABLES

1 Soil Sample Analytical Results Summary
2 Groundwater Analytical Results Summary

FIGURES/DRAWINGS

1 Property Location Map
2 Boring/Well Locations with Results

APPENDICES

1. Field Activity Photolog
2. Laboratory Data
3. Boring Logs

1.0 INTRODUCTION

1.1 PURPOSE

Brydges Environment, Engineering, Energy/Panamerican Environmental, Inc. (BE3) performed a Phase II environmental site assessment (ESA) at the 1100 Niagara Street property Street, Buffalo NY (see **Figure 1**). The 1.04-acre property contains the remains of the former Curtiss Malt House which is a large 2 story tall brick industrial building with a 3-story brick addition to the rear facing the railroad tracks and the former location of the Erie Canal. The purpose of the assessment was to obtain information and data for assessing the environmental impacts at the property and to use in a NYSDEC Brownfields Cleanup Program (BCP) application.

A Phase I ESA and preliminary Phase II ESA were completed previously by others for the property and Phase I ESAs have been completed for adjacent and nearby parcels that may have affected the subject property.

1.2 BACKGROUND

1.2.1 General Site Setting

The property is located at the northwest corner of the intersection of Niagara Street and Albany Street. To the east of the property is Niagara Street; to the west is a railroad easement and Interstate 190; to the north the building abuts Oliver Gear and Modern Heat Treatment; and to the south is a paper street and a newly constructed Tim Hortens restaurant.

The property contains the former Curtiss Malt House which is a large 2 story tall brick industrial building with a 3-story brick addition to the rear facing the railroad tracks and the former location of the Erie Canal. The original section has a gable roof situated perpendicular to Niagara Street, while the rear addition has a flat roof. There is a later (1922) reinforced concrete grain elevator attached to the southwest corner of the building, a stuccoed frame addition running along the south facade with a shallow-pitched shed roof, and a gable-roofed frame office wing, built after 1925 with later additions, on the east front of the building.

The original building sits on a dressed stone foundation and has a steel interior structural system, which supports the second floor where grain bins were located (some of which remain). The roof is supported on steel trusses. The roofing itself, mainly intact under later coverings, is clay tile. Asphalt parking is located along Niagara Street and grass/weed covered areas are located along the southern side of the rail tracts to the railroad along the western border. The topography drops sharply from east to west.

1.2.2 Physical Setting

The Property is zoned industrial and is located in an area consisting primarily of commercial and industrial businesses located along the east and west sides of Niagara Street. The Property is accessed via an entryway from Niagara Street (**Figure 2**). The northern 2/3 of the 1100 Niagara Street parcel currently contains an empty building that previously was occupied by the Grange league Federation. The southern 1/3 of the 1100 Niagara Street Parcel is an unimproved grassy/weed covered area that contains some soil as well as some construction and demolition debris.

1.2.3 Historical Use

Historical maps show the Property was vacant in 1889. In 1899 it had been developed as the C. G. Curtiss Malting Drum House. By 1925 the property had been developed as the Co-Operative Grange League Federation Exchange, Inc consisting of a steel, brick, cement and wood that was destroyed by fire in 1927. It was subsequently rebuilt using the existing foundations, concrete floors, masonry walls and was reconstructed entirely of fireproof steel at a greatly reduced height (its present height). The original heavy timber building was a 190-foot-high structure. Sanborn maps indicate that the property was the Co-Operative Grange League Federation Exchange until after 1981, when the property was vacated. An art gallery was located in the rear of the facility during the late 1980's, however it is unknown when the building was permanently vacated.

Current or historical adjacent properties include:

- currently used a s a parking lot, the property east across Niagara Street was historically the Keystone Chromium Corporation which operated a chrome and other plating facility from before 1951 to after 1986.
- Immediately south of the 1100 Niagara Street was an oil distribution facility which operated from 1925 until after 1951. This property has been redeveloped as a Tim Horton's
- Immediately adjacent to the north is Modern Heat Treating and Fabricating which has had a facility since the early 1980s. Modern treats metal products. Additionally, adjacent to the north is the currently actively Oliver Gear, Inc. facility which has occupied the property since 1931. Oliver Gear began as a machine shop in 1892 and is one of the oldest gear works in the United States. Since 1931 Oliver Gear has operated at the current adjacent location manufacturing custom gears in many sizes and styles. During World War II Oliver supplied large and small gears for gun mounts being supplied to the military.
- Immediately west of 1100 Niagara Street is a railroad right of way.

These adjacent properties have the potential to have impacted the subject property based on their use and type of operations.

A limited Phase I and Phase II ESA was prepared by Groundwater & Environmental Services, Inc. (GES) in 2012. The Phase I ESA identified a few RECs associated with fill material on the property and potential releases from adjacent properties. The Phase II ESA was identified as preliminary and included collection of soil samples from debris piles along the southern property boundary for chemical analysis; collection of a water and sediment sample from the sump under the mezzanine and collection of a sample of residue on the interior walls of the main room of the building. The soil sample analytical results indicated the presence of metals, a pesticide and semi volatile organic compounds (SVOCs) above the NYSDEC restricted residential soil cleanup objectives.

1.2.4 Contaminants of Concern

The history and use of the subject property does not indicate significant potential environmental impacts with the exception of potentially impacted fill materials. The primary contaminants associated with impacted fill or urban fill are specific SVOCs, mainly Polyaromatic hydrocarbon compounds (PAHs) and metals. The pesticide Dieldrin has also been identified in soil samples. Historical use of adjacent properties indicates a potential for environmental impairment from petroleum and solvent use as well as other chemicals and acids and bases.

1.3 SCOPE

The objective of this environmental assessment was to determine the presence of environmental

impacts from historical use at the property and adjacent to the subject property and to determine if the property qualifies for the NYSDEC BCP program. The assessment included subsurface soil assessment through observation of depth of fill, overburden and bedrock and sampling of fill materials across the parcel. The project scope included the investigation of subsurface soil and limited groundwater evaluation to assess the subject property for impacts from historic property use in the areas identified during the Phase I ESA. The assessment of groundwater was completed to determine if adjacent property use may be affecting the subject property.

The subsurface investigation included the installation of a series of seven Geoprobe® soil borings at designated locations (Refer to attached Figure 2). The soil from each boring was visually examined and scanned with a field total organic vapor analyzer. The scope included the collection of "worst-case" soil samples from a soil zone that indicated environmental impacts. Seven surface/near surface soil and four subsurface soil samples were planned. Based on field conditions only the seven near-surface soil samples were collected as native soils were observed below. Three of the soil borings – one on the east side, one on west side and one on the south side of the building were converted into temporary groundwater wells. Only one of the wells produced groundwater and therefore only one groundwater sample was collected (refer to attached Figure 2). Soil samples were analyzed for 6 NYCRR Part 375 VOCs, SVOCs, metals, PCBs and pesticides. The one groundwater sample was analyzed for volatile organics.

The soil borings were field located and were generally in the areas identified in the proposed scope with minor adjustments to accommodate the location of underground utility lines and visual observations. All soil borings were advanced at a minimum distance of 2.5 feet away from marked utilities, where present, to reduce the possibility of accidentally damaging an underground line. Assessment of subsurface conditions included visual/olfactory observations and volatile organic screening using a photoionization detector (PID) instrument scan of all the borings across the property. Soil from each boring was visually examined, and soil samples were collected from the seven (7) locations. The soil samples were submitted to a New York State approved laboratory for analysis of NYSDEC NYCRR Part 375 compounds.

2.0 FIELD INVESTIGATIONS

Phase II field work was completed on a single day on May 16, 2019. A photolog of field operations is included as **Appendix 1,** and a summary of the field investigation methodology and findings is presented in Sections 2.1 through 2.3.

2.1 SOIL SAMPLING

A total of seven (7) Geoprobe® soil borings were advanced at specific locations across the property (refer to attached Figure 2). Soil borings were field located to assess the subsurface surrounding the onsite building.

The Geoprobe field work was performed by BE3 and Nature's Way (Geoprobe operator) during a one-day period on May 16, 2018. Borings were advanced to a depth of 8.5 to 15.5 feet below ground surface (bgs). The borings were completed using a fully equipped truck mounted Geoprobe® unit which employs direct push technology. Continuous soil sampling was performed using Macro Core soil samplers measuring 44 inches in length and 1½ inches in diameter with acetate liners resulting in roughly four-foot length distinct sample cores (i.e., 0-4', 4-8', 8-12', 12-16). Each of the samplers was fitted with a new acetate liner prior to use.

Soil from each soil core was visually described and field screening of soil for volatile organic compound (VOC) concentrations was completed using a PID - MiniRae with a 10.2 eV Lamp). No elevated PID readings were observed at any of the boreholes. A total seven subsurface soil samples were collected in the fill material as follows:

- SB-1 at 0.5-1 feet bgs. Total depth of boring was 15.4 feet where refusal assumed to be bedrock. Fill was observed to 1-foot bgs
- SB-2 at 0.5-1 feet bgs. Total depth of boring was 9.0 feet where refusal assumed to be bedrock. Fill was observed to about 0.6 feet bgs. Very slight odor in fill.
- SB-3 at 0.5-1 feet bgs. Total depth of boring was 14 feet where refusal assumed to be bedrock. Fill was observed from 0- 6 feet bgs
- SB-4 at 0.5-1 feet bgs. Total depth of boring was 11.3 feet where refusal assumed to be bedrock. Fill was observed to about to 4.9 feet bgs
- SB-5 at 0.5-1 feet bgs. Total depth of boring was 8.5 feet where refusal assumed to be bedrock. Fill was observed to about to 4.0 feet bgs
- SB-6 at 0.5-1 feet bgs. Total depth of boring was 15.5 feet where refusal assumed to be bedrock. Fill was observed to about to 12 feet bgs
- SB-7 at 0.5-1 feet bgs. Total depth of boring was 11.0 feet where refusal assumed to be bedrock. Fill was observed to about to 8 feet bgs

Since no visual observations or elevated PID readings (with the exception of SB-2 – slight odor no PID) were found, sample depths corresponded to near-surface soil/fill material. The soil samples were submitted to Paradigm a NYSDEC approved laboratory for analysis (refer to Section 2.3).

Stratification of material in the borings and observations were noted on boring logs (refer to Appendix A). Photographs of field activities are contained in Appendix B. Prior to conducting the subsurface investigation, all utilities were located, and areas identified. All sampling tools were cleaned with Alconox, double rinsed with tap water and rinsed with distilled water between sample collection points. All soil borings were backfilled and sealed with native soil.

In general, the geology is described as silty fill with some sand and gravel, pieces of brick, concrete and cinder that varies in depth across the site with the deepest fill in the south and southeast portion of the site ranging from zero to one feet bgs in borings SB-1 and SB-2 and 2 and 4-6 feet in SB-3, SB-4 and SB-5. The depth of fill in SB-6 and SB-7 was 15 and 8 feet respectively. Below the fill layer is typically silty reddish-brown clay with some sand and gravel above bedrock. There were some exceptions to this general geological description as noted on each borehole log. Boring logs are provided in Appendix A and Photographs of soil cores can be found in Appendix B.

2.2 SOIL SCREENING

Field screening consisted of visual and olfactory observations. Field screening of all soil core samples for total VOCs was completed using a PID RAE Systems MiniRAE 2000. Soil cores from boreholes were transported to a staging area adjacent to each borehole. The acetate liners were cut, and the length of the core was examined visually and with the PID. Odors, PID results, if any and observations were noted on the boring logs. As indicated, no elevated PID readings were observed but borehole SB-2 had a slight odor in the fill layer. As indicated, samples were collected at each of the seven locations in the fill for laboratory analysis.

2.3 GROUNDWATER ASSESSMENT

A total of three (3) groundwater monitoring micro-wells were installed in three of the borings advanced using Geoprobe direct push technology. Temporary monitoring wells TMW-1, TMW-2 and TMW-3 were installed in borings SB-1 and SB-2 and SB-7. Temporary Micro-Well MW-1 was installed at a location east of the building on the border with the northeastern adjacent property. Temporary Micro-Well MW-2 was installed at a location west of the building on the border with the northwestern adjacent property. Temporary Micro-Well MW-3 was installed southeast of the building near the southeast property line and Niagara Street.

Each well consisted of a 1-inch diameter, schedule 40 PVC casing equipped with a 5-foot, 100-slot screen and a solid PVC riser pipe extending to the surface. Screens were positioned in the bottom of the boring to ensure assessment potential for contaminates if water was present. Each well bottom was placed at or near the top of bedrock. Only well TMW-3 had any water sufficient in volume for sampling. One groundwater sample was collected from TMW-3 and analyzed for Part 375 VOCs.

2.4 SAMPLING RATIONALE

The purpose of the assessment at 1100 Niagara Street, Buffalo, New York was to assess potential environmental impacts requiring remediation and the potential order of magnitude cost of that cleanup and to obtain information and data for use in a Brownfields Cleanup Program (BCP) application. Based on historical information and property use as well as the visual observations in the field, emphasis was placed on delineating fill versus native soil as the objective was to focus on future use with regards to urban fill conditions, this approach was also deemed as appropriate and adequate to collect soil samples for BCP application purposes. Additionally, a preliminary assessment of groundwater was made to determine if groundwater impacts would affect future development costs. The methods selected to assess the potential contamination at the property are appropriate to determine the extent of environmental impairment in near-surface soils/fill.

3.0 RESULTS

3.1 SUBSURFACE CONDITIONS

The borings indicate that subsurface conditions were typical of an urban, commercial setting. The fill material was primarily a mixture of non-native fill with mixtures of silt, sand and gravel, and some miscellaneous materials such as brick, glass, and concrete. Below this fill, in most locations was the native red-brown silty clay over a thin layer of clay with sand and small stones above bedrock.

3.2 ANALYTICAL RESULTS

The results of all soil samples analyzed, were compared to the New York State Brownfields Cleanup Program Soil Cleanup Objectives as presented in 6 NYCRR Part 375-6.8(b) Soil Cleanup Objectives (SCO). The groundwater sample was analyzed for the Part 375 Brownfields constituent list (6 NYCRR Part 375-6.8(b)) VOCs. The groundwater analytical results were compared to NYSDEC Technical and Operational Guidance Series (TOGs) 1.1.1 GA Groundwater Regulations.

A summary of results are provided in Tables 1 (soil) and 2 (groundwater). The complete set of analytical data is provided in Appendix 2.

The soil cleanup objectives (SCOs) listed in 6 NYCRR Part 375-6.8 pertain to sites governed under a NYSDEC environmental remediation program, and since the potential exists for the subject property to be included under the BCP, these SCOs are applicable and appropriate in terms of reporting exceedances. See **Table 1** for the results of the near-surface soil samples compared to residential, and restricted residential SCOs in Part 375 and see the complete set of analytical data in **Appendix 2**.

3.2.1 Subsurface-Near Surface Soil

Subsurface-Near Surface soil samples were collected at each of the seven (7) boring locations shown on **Figure 2**. Metals and/or SVOCs, were detected in all samples. Details of the exceedances are shown in **Table 1**. The following provides a summary of the subsurface soil contamination:

Semi-Volatile Organic Compounds

Of the seven subsurface soil samples only SB-1 and SB-6 did not have a number of reported SVOCs, mostly PAH compounds above DEC SCOs. The PAHs Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluroranthene, Dibenz(a,h)anthracene, and Indeno(1,2,3-cd)pyrene were all above restricted residential SCOs. The PAHs Benzo(k)fluroranthene and Chrysene were above unrestricted and residential SCOs except in SB-4 where the results were also above restricted residential SCOs .Refer to Table 1 for the specific results in comparison to the SCOs.

PAHs are a group of chemicals that are formed during incomplete burning of wood, coal, gas, garbage or other organic substances and are widely distributed in the environment and particularly in older urban environments where coal, gas, and petroleum were burned for heat and other energy uses. PAH compounds are common constituents of fill material found in urban environments, and are typically associated with both fill material, coal tar and asphalt-based materials or ash. These are frequently also found in railroad fill base material.

Metals

Metals were detected in all subsurface soils analyzed. All borehole soil samples were above SCOs for the following metals except SB-4, SB-6 and SB-7:

- Arsenic- SB-2 at 41.60 ppm
- Cadmium – SB-2 at 6.83 ppm and SB-3 at 2.290 ppm
- Lead – SB-2 at 997.0 ppm and SB-5 at 765.0 ppm
- Total Mercury- SB-1 at 0.967 ppm; SB-2 at 2.95 PPM; SB-3 at 4.25 ppm and SB-5 at 0.97 ppm

PCBs/Pesticides

PCBs were not detected in any soil samples except in SB-2 at 0.1 ppm well below SCOs.
Various pesticides were detected in the soil samples all below SCOs. The pesticide Dieldrin was detected in the soil sample from SB-2 and SB-3 above restricted residential SCO.

Volatile Organic Compounds (VOCs)

No volatile organic compounds (VOCs) were detected above SCOs. One VOCs, TCE was detected well below SCOs in SB-7.

3.2.2 Groundwater

A sample from the one micro-well, TMW-3, was collected using a bailer and analyzed for the following:

- Part 375 VOCs

Table 2 presents a comparison of the detected groundwater parameter concentrations to the Class GA Groundwater Quality Standards (GWQS) per NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values

Volatile Organic Compounds (VOCs)

Solvent related compounds were detected at a concentration exceeding TOGS (5.0 ppb) as follows:

1,1,1-Trichloroethane at 80.2 ppb; 1,1-Dichloroethane at 9.58 ppb; 1,1-Dichloroethene at 25.6 ppb; cis-1,2-Dichloroethene at 13.4 ppb; and Trichloroethene- at 98.8 ppb.

4.0 CONCLUSIONS & RECOMMENDATIONS

The purpose of this assessment was to identify potential contamination in the near-surface soil and to assess groundwater at 1100 Niagara Street, Buffalo NY. The Phase I ESA identified potential RECs from historical uses at adjacent parcels and portions of the subject property. Past Phase II ESA results indicated elevated levels of compounds above SCOs in soils at the property and historical uses at adjacent properties. Data reviewed from a remedial investigations at adjacent/nearby properties indicated potential impacts to groundwater and soils at these adjacent/nearby properties which could potential impact the subject property.

Field observations and laboratory results indicate that there are urban fill conditions in the near-surface soil resulting in compounds above residential SCOs. Metal and SVOC exceedances were observed in six (6) of the seven (7) samples collected and these represent areas across the property. The fill depth varied from one foot to fifteen feet across the property and bedrock depth varied from nine (9) to almost sixteen (16) feet bgs. The one groundwater result indicates that groundwater up gradient of the property is impacted with chlorinated solvents above groundwater guidance. Immediately adjacent and nearby properties east and north of the property have the historical use potential for chlorinated solvent use that could impact groundwater. The overburden does not appear to be a source of a significant water bearing zone.

This Phase II ESA represents an assessment of environmental conditions at the property. Additional investigations would be necessary to fine tune remedial approaches, if warranted depending upon the future use of the property. More detailed investigations may require assessment of groundwater in the bedrock aquifer. However, it is likely that impacts to groundwater are from adjacent or nearby properties.

5.0 WARRANTS AND LIMITATIONS

This report is based on information from limited soil sampling and visual observations of the soils as well as a review of previous Phase I and II ESAs on immediately adjacent and nearby properties which included portions of the subject property. This report is intended exclusively for the purpose outlined herein at the site location and project indicated.

This report is intended for the sole use of 1100 Niagara LLC and others approved by the owner. The scope of services performed in this assessment may not be appropriate to satisfy the needs of other users and any use or reuse of this document or the findings, conclusions, or recommendations presented, is at the sole risk of the user.

The conclusions set forth in this report are based upon, and limited by, the analytical data and other information available. It should be noted that all surface and subsurface environmental assessments are inherently limited in the sense that conclusions are drawn, and recommendations developed from information obtained from limited data and site evaluation at a specific time. The passage of time may result in a change in environmental circumstances at this site and surrounding properties, or petroleum/hazardous materials beneath the surface may be present but undetectable during this limited Phase II assessment.

Opinions and recommendations presented herein apply to the site conditions existing at the time of the subsurface assessment and those reasonably foreseeable. They cannot necessarily apply to site changes, which are not made aware and therefore not been evaluated.

6.0 PROFESSIONAL STATEMENT/SIGNATURE

This Phase II ESA at 1100 Niagara Street, Buffalo NY was performed in conformance with the scope and limitations of ASTM Practice E 1903-11 for the specific objectives specified in the report. I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in 312.10 of 40CFR312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquires in conformance with the standards and practices set forth in 40 CFR 312.

June 18-2019

Peter J. Gorton, MPH, CHCM — Date
Total Years of Environmental Work Experience – Over 40

TABLES

TABLE 1 **Revised 6/17/19**

1100 NIAGARA STREET - SOIL BORING SAMPLE ANALYTICAL RESULTS SUMMARY

Contaminants	Sample Identification					Date Sampled: 5/16/19			
	SB-01 (0-1')	SB-02 (0-1')	SB-03 (0-1')	SB-04 (0-1')	SB-05 (0-1')	SB-06 (0-1')	SB-07 (0-1')	Residential	Restricted Residential
METALS									
Arsenic	10.90	**41.60**	8.25	6.07	9.31	6.36	3.40	16	16
Barium	141	200.0	101.0	34.1	309.0	93.9	122.0	350	400
Beryllium	0.668	0.720	0.760	ND	0.430	0.650	0.620	14	72
Cadmium	2.900	**6.830**	**2.290**	1.930	2.37	2.130	1.840	2.5	4.3
Chromium	17.8	24.6	13.6	5.7	17.4	20.2	20.9	36	180
Copper	79.6	219.0	58.5	10.0	47.7	21.3	**24.4**	270	270
Lead	217.0	**997.0**	189.0	166.0	**765.0**	104.0	22.3	400	400
Manganese	472	453	499	941	500	390	281	2,000	2,000
Total Mercury	**0.967**	**2.95**	**4.25**	0.13	**0.97**	0.098	0.091	0.81	0.81
Nickel	20.0	52.7	11.5	5.3	13	18.6	18.5	140	310
Selenium	1.54	2.86	1.43	ND	ND	ND	ND	36	180
Silver	2.040	3.97	0.77	ND	1.5	1.58	1.32	36	180
Tot Cyanide	ND	ND	ND	ND	ND	ND	ND	27	27
Zinc	292	1490	240	4.23	413	125	88.6	2200	10,000
PCBs									
PCB-1254	ND	ND	ND	ND	ND	ND	ND	1	1
PCB-1260	ND	0.1	ND	ND	ND	ND	ND	1	1
PESTICIDES									
4,4-DDT	0.006	ND	ND	0.013	0.012	0.004	0.004	1.7	7.9
4,4-DDE	ND	ND	ND	ND	0.032	0.003	ND	1.8	8.9
4,4-DDD	ND	ND	ND	0.005	0.005	ND	ND	2.6	13
beta-BHC	ND	ND	ND	ND	ND	0.006	ND	0.072	0.36
Delta-BHC	0.009	ND	0.12	0.013	ND	ND	ND	100	100
Endosulfan Sulfate	ND	ND	ND	0.008	ND	ND	0.004	4.8	24
Endrin	ND	ND	ND	0.006	ND	ND	ND	2.2	11
Endrin Ketone	ND	ND	ND	0.006	ND	ND	0.005	NA	NA
Dieldrin	0.019	0.96	**0.44**	0.007	0.009	0.004	ND	0.039	0.2
Aldin	ND	ND	ND	ND	ND	ND	ND	0.019	0.097
Heptachlor	ND	ND	ND	ND	ND	ND	ND	0.42	2.1
SEMIVOLATILE ORGANIC COMPOUNDS									
Acenaphthene	ND	ND	0.46	ND	ND	ND	ND	100	100
Acenapthylene	ND	0.44	0.82	ND	ND	ND	0.45	100	100
Anthracene	ND	0.77	2.12	3.06	0.36	ND	0.73	100	100
Benz(a)anthracene	0.330	**1.99**	**4.22**	**6.82**	**1.13**	0.42	**1.39**	1	1
Benzo(a)pyrene	0.350	**1.79**	**3.45**	**6.77**	**1.16**	0.48	**1.11**	1	1
Benzo(b)fluoranthene	0.390	**2.49**	**3.73**	**6.57**	**1.15**	0.54	**1.08**	1	1
Benzo(g,h,i)perylene	0.330	1.14	2.07	4.17	0.78	0.39	0.62	100	100
Benzo(k)fluoranthene	ND	**1.61**	**2.56**	**5.9**	**1**	0.4	**1.01**	1	3.9
Chrysene	0.360	**2.34**	**3.75**	**6.42**	**1.17**	0.5	**1.23**	1	3.9
Dibenz(a,h)anthracene	ND	**0.43**	**0.8**	**1.43**	ND	ND	ND	0.33	0.33
Fluoranthene	0.64	3.99	8.61	13.8	2.37	0.89	3.04	100	100
Fluorene	ND	ND	0.64	ND	ND	ND	0.41	100	100
Naphthalene	ND	1.09	0.34	ND	ND	ND	ND	100	100
Indeno(1,2,3-cd)pyrene	ND	**1.21**	**2.24**	**4.46**	**0.91**	0.38	**0.73**	0.5	0.5
Phenanthrene	0.400	2.96	6.57	8.8	1.22	0.5	2.83	100	100
Pyrene	0.560	3.43	7.12	11.3	1.95	0.72	2.37	100	100
Volatile Organic Compounds									
Acetone	ND	ND	ND	ND	ND	ND	ND	100	100
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	59	100
m,p-Xylene	ND	ND	ND	ND	ND	ND	ND	100	100
TCE	ND	ND	ND	ND	ND	ND	0.009	10	21

ND - Non-Detect NA - Not Applicable All Data is Validated J - The analyte was positively identified; the associated numerical value is the approximate concentration of the an

>/= to Residential/Restricted-Residential SCO and Unrestricted Use SCO All values in ppm

>Unrestricted Use & Residential SCO but <Restricted-Residential SCO

TABLE 2
1100 NIAGARA STREET - GW SAMPLE ANALYTICAL RESULTS SUMMARY

Contaminants	Sample Identification		NYSDEC
	SB-07 GW	5-16-19	TOGS 1.1.1. GA (1)
Volatile Organic Compounds			
Acetone	17.2		50
1,1,1-Trichloroethane	**80.2**		5
1,1-Dichloroethane	**9.58**		5
1,1-Dichloroethene	**25.6**		5
cis-1,2-Dichloroethene	**13.4**		5
1,2,4-Trimethylbenzene	ND		5
1,3,5-Trimethylbenzene	ND		5
Trichloroethene	**98.8**		5

All values in ppb

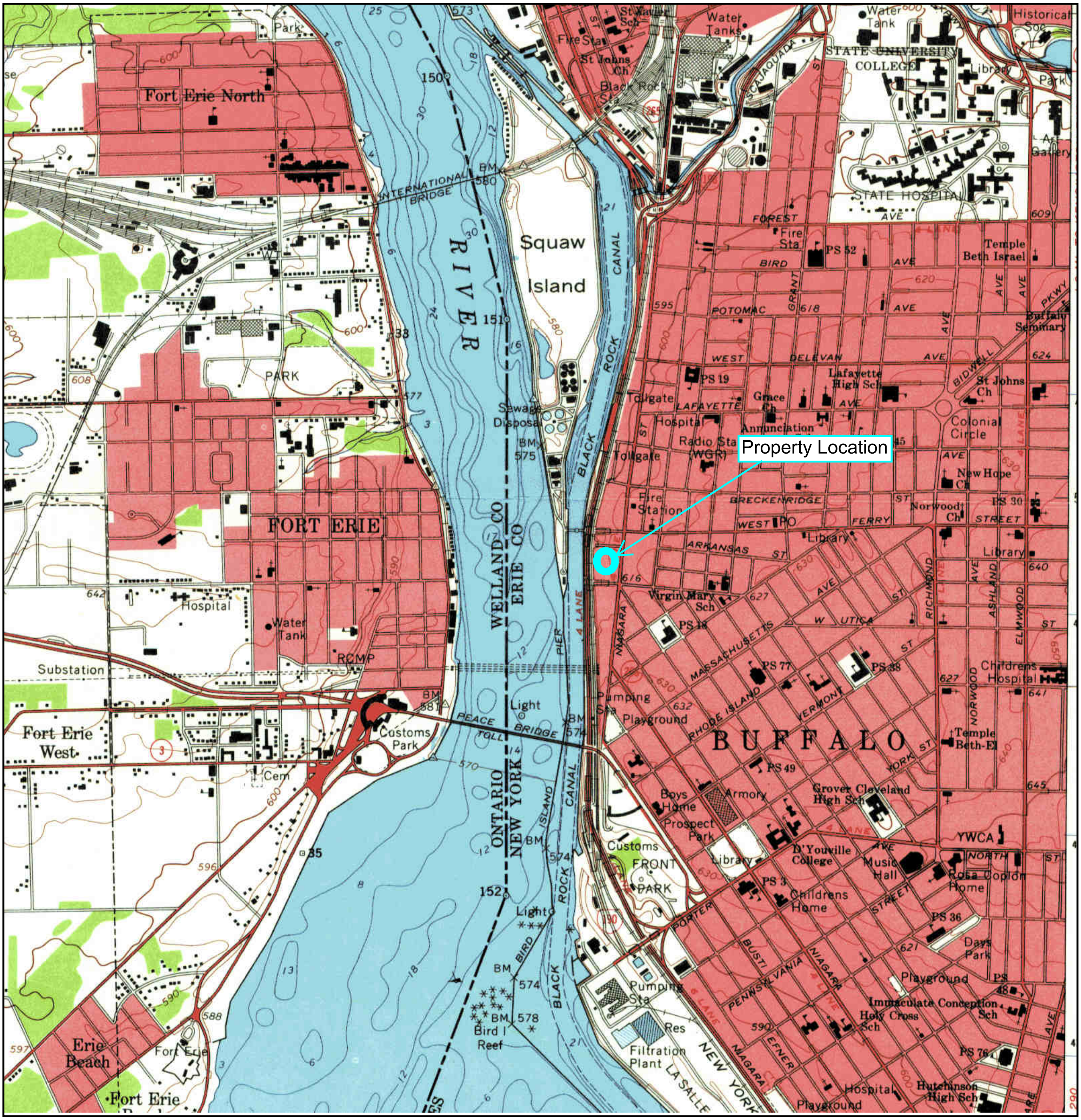
N/A - Not Applicable ND - Non-detect

(1) - TOGs 1.1.1 GA - Technical and Operational Guidance Series (1.1.1) Source of Drinking Water (Groundwater

Exceeds TOGs Guidance Value

FIGURES

Historical Topographic Map



N ↑	TARGET QUAD NAME: BUFFALO NW MAP YEAR: 1965 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 1106-1110 Niagara Street ADDRESS: 1106-1110 Niagara Street, Buffalo, NY 14213 LAT/LONG: 42.9136 / -78.9003	CLIENT: Panamerican Environmental, Inc CONTACT: Peter J Gorton INQUIRY#: 4098441.4 RESEARCH DATE: 10/07/2014

Figure 2: Location of Soil Borings (SB) and Temporary Monitoring Wells with Analytical Results
Notes: Red- Greater than restricted residential SCOs or TOGs; Blue - greater than unrestricted & Residential SCOs

APPENDICES

BE3/PANAMERICAN Photolog

Date: 5/16/19

1. Location of Borehole SB-1 from east looking west at the northeast corner of the building

2. Location of SB-1 from west facing east

3. Soil cores from SB-1

4. Location of Borehole SB-2 from south facing north at northwest corner of property

BE3/PANAMERICAN Photolog

Date: 5/16/19

5. Location of SB-2 from west looking east at northwest corner of property

6. Soil Cores from SB-2

7. Location of Borehole SB-3 from south facing north; located in southwest corner of property

8. Location of Borehole SB-3 from west facing east

BE3/PANAMERICAN Photolog

Date: 5/16/19

9. Soil cores from SB-3

10. Location of Borehole SB-4 from southwest corner facing northeast

11. Location of Borehole SB-4 from west facing east

12. Soil cores from SB-4

BE3/PANAMERICAN Photolog

Date: 5/16/19

13. Location of Borehole SB-5 from west facing east

14. Location of Borehole SB-5 from east facing west

15. Location of Borehole SB-6 from west facing east

16. Location of SB-6 from east facing west

BE3/PANAMERICAN Photolog

Date: 5/16/19

17. Soil Cores SB-6

18. Location of Borehole SB-7 from southeast facing northwest

19. Location of SB-7 from east facing west

20. Soil Cores SB-7

LAB DATA

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

BE3

For Lab Project ID

192228

Referencing

1100 Niagara Street

Prepared

Monday, June 3, 2019

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: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-01 (0-1')		
Lab Sample ID:	192228-01	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**10.9**	mg/Kg		5/22/2019 17:10
Barium	**141**	mg/Kg		5/22/2019 17:10
Beryllium	**0.668**	mg/Kg		5/22/2019 17:10
Cadmium	**2.90**	mg/Kg		5/22/2019 17:10
Chromium	**17.8**	mg/Kg		5/22/2019 17:10
Copper	**79.6**	mg/Kg		5/22/2019 17:10
Lead	**217**	mg/Kg		5/22/2019 17:10
Manganese	**472**	mg/Kg		5/22/2019 17:10
Nickel	**20.0**	mg/Kg		5/22/2019 17:10
Selenium	**1.54**	mg/Kg		5/22/2019 17:10
Silver	**2.04**	mg/Kg		5/22/2019 17:10
Zinc	**292**	mg/Kg		5/22/2019 17:10

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/21/2019
Data File: 190522B

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.967**	mg/Kg		6/3/2019 10:40

Method Reference(s): EPA 7471B
Preparation Date: 5/31/2019
Data File: Hg190603A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0308	mg/Kg		5/25/2019 08:56
PCB-1221	< 0.0308	mg/Kg		5/25/2019 08:56
PCB-1232	< 0.0308	mg/Kg		5/25/2019 08:56
PCB-1242	< 0.0308	mg/Kg		5/25/2019 08:56

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-01 (0-1')		
Lab Sample ID:	192228-01	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

PCB-1248	< 0.0308	mg/Kg		5/25/2019 08:56
PCB-1254	< 0.0308	mg/Kg		5/25/2019 08:56
PCB-1260	< 0.0308	mg/Kg		5/25/2019 08:56
PCB-1262	< 0.0308	mg/Kg		5/25/2019 08:56
PCB-1268	< 0.0308	mg/Kg		5/25/2019 08:56

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**39.5**	12.8 - 98.2		5/25/2019 08:56

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/24/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.08	ug/Kg		5/24/2019 14:15
4,4-DDE	< 3.08	ug/Kg		5/24/2019 14:15
4,4-DDT	**5.68**	ug/Kg		5/24/2019 14:15
Aldrin	< 3.08	ug/Kg		5/24/2019 14:15
alpha-BHC	< 3.08	ug/Kg		5/24/2019 14:15
beta-BHC	< 3.08	ug/Kg		5/24/2019 14:15
cis-Chlordane	< 3.08	ug/Kg		5/24/2019 14:15
delta-BHC	**8.86**	ug/Kg		5/24/2019 14:15
Dieldrin	**18.9**	ug/Kg		5/24/2019 14:15
Endosulfan I	< 3.08	ug/Kg		5/24/2019 14:15
Endosulfan II	< 3.08	ug/Kg		5/24/2019 14:15
Endosulfan Sulfate	< 3.08	ug/Kg		5/24/2019 14:15
Endrin	< 3.08	ug/Kg		5/24/2019 14:15
Endrin Aldehyde	< 3.08	ug/Kg		5/24/2019 14:15
Endrin Ketone	< 3.08	ug/Kg		5/24/2019 14:15
gamma-BHC (Lindane)	< 3.08	ug/Kg		5/24/2019 14:15
Heptachlor	< 3.08	ug/Kg		5/24/2019 14:15
Heptachlor Epoxide	< 3.08	ug/Kg		5/24/2019 14:15

Sample Identifier:	SB-01 (0-1')		
Lab Sample ID:	192228-01	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Methoxychlor	**3.23**	ug/Kg		5/24/2019 14:15
Toxaphene	< 30.8	ug/Kg		5/24/2019 14:15
trans-Chlordane	< 3.08	ug/Kg		5/24/2019 14:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**93.8**	20.6 - 144		5/24/2019 14:15
Tetrachloro-m-xylene (1)	**52.5**	29.4 - 105		5/24/2019 14:15

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 5/24/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 314	ug/Kg		5/24/2019 19:55
1,2,4,5-Tetrachlorobenzene	< 314	ug/Kg		5/24/2019 19:55
1,2,4-Trichlorobenzene	< 314	ug/Kg		5/24/2019 19:55
1,2-Dichlorobenzene	< 314	ug/Kg		5/24/2019 19:55
1,3-Dichlorobenzene	< 314	ug/Kg		5/24/2019 19:55
1,4-Dichlorobenzene	< 314	ug/Kg		5/24/2019 19:55
2,2-Oxybis (1-chloropropane)	< 314	ug/Kg		5/24/2019 19:55
2,3,4,6-Tetrachlorophenol	< 314	ug/Kg		5/24/2019 19:55
2,4,5-Trichlorophenol	< 314	ug/Kg		5/24/2019 19:55
2,4,6-Trichlorophenol	< 314	ug/Kg		5/24/2019 19:55
2,4-Dichlorophenol	< 314	ug/Kg		5/24/2019 19:55
2,4-Dimethylphenol	< 314	ug/Kg		5/24/2019 19:55
2,4-Dinitrophenol	< 1260	ug/Kg		5/24/2019 19:55
2,4-Dinitrotoluene	< 314	ug/Kg		5/24/2019 19:55
2,6-Dinitrotoluene	< 314	ug/Kg		5/24/2019 19:55
2-Chloronaphthalene	< 314	ug/Kg		5/24/2019 19:55
2-Chlorophenol	< 314	ug/Kg		5/24/2019 19:55
2-Methylnapthalene	< 314	ug/Kg		5/24/2019 19:55
2-Methylphenol	< 314	ug/Kg		5/24/2019 19:55

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-01 (0-1')		
Lab Sample ID:	192228-01	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

2-Nitroaniline	< 314	ug/Kg	5/24/2019 19:55
2-Nitrophenol	< 314	ug/Kg	5/24/2019 19:55
3&4-Methylphenol	< 314	ug/Kg	5/24/2019 19:55
3,3'-Dichlorobenzidine	< 314	ug/Kg	5/24/2019 19:55
3-Nitroaniline	< 314	ug/Kg	5/24/2019 19:55
4,6-Dinitro-2-methylphenol	< 420	ug/Kg	5/24/2019 19:55
4-Bromophenyl phenyl ether	< 314	ug/Kg	5/24/2019 19:55
4-Chloro-3-methylphenol	< 314	ug/Kg	5/24/2019 19:55
4-Chloroaniline	< 314	ug/Kg	5/24/2019 19:55
4-Chlorophenyl phenyl ether	< 314	ug/Kg	5/24/2019 19:55
4-Nitroaniline	< 314	ug/Kg	5/24/2019 19:55
4-Nitrophenol	< 314	ug/Kg	5/24/2019 19:55
Acenaphthene	< 314	ug/Kg	5/24/2019 19:55
Acenaphthylene	< 314	ug/Kg	5/24/2019 19:55
Acetophenone	< 314	ug/Kg	5/24/2019 19:55
Anthracene	< 314	ug/Kg	5/24/2019 19:55
Atrazine	< 314	ug/Kg	5/24/2019 19:55
Benzaldehyde	< 314	ug/Kg	5/24/2019 19:55
Benzo (a) anthracene	**333**	ug/Kg	5/24/2019 19:55
Benzo (a) pyrene	**352**	ug/Kg	5/24/2019 19:55
Benzo (b) fluoranthene	**389**	ug/Kg	5/24/2019 19:55
Benzo (g,h,i) perylene	**331**	ug/Kg	5/24/2019 19:55
Benzo (k) fluoranthene	< 314	ug/Kg	5/24/2019 19:55
Bis (2-chloroethoxy) methane	< 314	ug/Kg	5/24/2019 19:55
Bis (2-chloroethyl) ether	< 314	ug/Kg	5/24/2019 19:55
Bis (2-ethylhexyl) phthalate	< 314	ug/Kg	5/24/2019 19:55
Butylbenzylphthalate	< 314	ug/Kg	5/24/2019 19:55
Caprolactam	< 314	ug/Kg	5/24/2019 19:55
Carbazole	< 314	ug/Kg	5/24/2019 19:55
Chrysene	**356**	ug/Kg	5/24/2019 19:55

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-01 (0-1')		
Lab Sample ID:	192228-01	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Dibenz (a,h) anthracene	< 314	ug/Kg	5/24/2019	19:55
Dibenzofuran	< 314	ug/Kg	5/24/2019	19:55
Diethyl phthalate	< 314	ug/Kg	5/24/2019	19:55
Dimethyl phthalate	< 314	ug/Kg	5/24/2019	19:55
Di-n-butyl phthalate	< 314	ug/Kg	5/24/2019	19:55
Di-n-octylphthalate	< 314	ug/Kg	5/24/2019	19:55
Fluoranthene	**640**	ug/Kg	5/24/2019	19:55
Fluorene	< 314	ug/Kg	5/24/2019	19:55
Hexachlorobenzene	< 314	ug/Kg	5/24/2019	19:55
Hexachlorobutadiene	< 314	ug/Kg	5/24/2019	19:55
Hexachlorocyclopentadiene	< 1260	ug/Kg	5/24/2019	19:55
Hexachloroethane	< 314	ug/Kg	5/24/2019	19:55
Indeno (1,2,3-cd) pyrene	< 314	ug/Kg	5/24/2019	19:55
Isophorone	< 314	ug/Kg	5/24/2019	19:55
Naphthalene	< 314	ug/Kg	5/24/2019	19:55
Nitrobenzene	< 314	ug/Kg	5/24/2019	19:55
N-Nitroso-di-n-propylamine	< 314	ug/Kg	5/24/2019	19:55
N-Nitrosodiphenylamine	< 314	ug/Kg	5/24/2019	19:55
Pentachlorophenol	< 628	ug/Kg	5/24/2019	19:55
Phenanthrene	**401**	ug/Kg	5/24/2019	19:55
Phenol	< 314	ug/Kg	5/24/2019	19:55
Pyrene	**564**	ug/Kg	5/24/2019	19:55

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier: SB-01 (0-1')
Lab Sample ID: 192228-01 **Date Sampled:** 5/16/2019
Matrix: Soil **Date Received:** 5/17/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**54.0**	34.8 - 95.1		5/24/2019 19:55
2-Fluorobiphenyl	**59.7**	34.1 - 82		5/24/2019 19:55
2-Fluorophenol	**60.5**	34.7 - 81.4		5/24/2019 19:55
Nitrobenzene-d5	**62.4**	31.2 - 77.2		5/24/2019 19:55
Phenol-d5	**62.0**	36 - 82.6		5/24/2019 19:55
Terphenyl-d14	**61.8**	37.7 - 94.8		5/24/2019 19:55

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/20/2019
Data File: B37306.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.52	ug/Kg		5/29/2019 18:04
1,1,2,2-Tetrachloroethane	< 8.52	ug/Kg		5/29/2019 18:04
1,1,2-Trichloroethane	< 8.52	ug/Kg		5/29/2019 18:04
1,1-Dichloroethane	< 8.52	ug/Kg		5/29/2019 18:04
1,1-Dichloroethene	< 8.52	ug/Kg		5/29/2019 18:04
1,2,3-Trichlorobenzene	< 21.3	ug/Kg		5/29/2019 18:04
1,2,4-Trichlorobenzene	< 21.3	ug/Kg		5/29/2019 18:04
1,2,4-Trimethylbenzene	< 8.52	ug/Kg		5/29/2019 18:04
1,2-Dibromo-3-Chloropropane	< 42.6	ug/Kg		5/29/2019 18:04
1,2-Dibromoethane	< 8.52	ug/Kg		5/29/2019 18:04
1,2-Dichlorobenzene	< 8.52	ug/Kg		5/29/2019 18:04
1,2-Dichloroethane	< 8.52	ug/Kg		5/29/2019 18:04
1,2-Dichloropropane	< 8.52	ug/Kg		5/29/2019 18:04
1,3,5-Trimethylbenzene	< 8.52	ug/Kg		5/29/2019 18:04
1,3-Dichlorobenzene	< 8.52	ug/Kg		5/29/2019 18:04
1,4-Dichlorobenzene	< 8.52	ug/Kg		5/29/2019 18:04
1,4-Dioxane	< 85.2	ug/Kg		5/29/2019 18:04
2-Butanone	< 42.6	ug/Kg		5/29/2019 18:04

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-01 (0-1')		
Lab Sample ID:	192228-01	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

2-Hexanone	< 21.3	ug/Kg	5/29/2019	18:04
4-Methyl-2-pentanone	< 21.3	ug/Kg	5/29/2019	18:04
Acetone	< 42.6	ug/Kg	5/29/2019	18:04
Benzene	< 8.52	ug/Kg	5/29/2019	18:04
Bromochloromethane	< 21.3	ug/Kg	5/29/2019	18:04
Bromodichloromethane	< 8.52	ug/Kg	5/29/2019	18:04
Bromoform	< 21.3	ug/Kg	5/29/2019	18:04
Bromomethane	< 8.52	ug/Kg	5/29/2019	18:04
Carbon disulfide	< 8.52	ug/Kg	5/29/2019	18:04
Carbon Tetrachloride	< 8.52	ug/Kg	5/29/2019	18:04
Chlorobenzene	< 8.52	ug/Kg	5/29/2019	18:04
Chloroethane	< 8.52	ug/Kg	5/29/2019	18:04
Chloroform	< 8.52	ug/Kg	5/29/2019	18:04
Chloromethane	< 8.52	ug/Kg	5/29/2019	18:04
cis-1,2-Dichloroethene	< 8.52	ug/Kg	5/29/2019	18:04
cis-1,3-Dichloropropene	< 8.52	ug/Kg	5/29/2019	18:04
Cyclohexane	< 42.6	ug/Kg	5/29/2019	18:04
Dibromochloromethane	< 8.52	ug/Kg	5/29/2019	18:04
Dichlorodifluoromethane	< 8.52	ug/Kg	5/29/2019	18:04
Ethylbenzene	< 8.52	ug/Kg	5/29/2019	18:04
Freon 113	< 8.52	ug/Kg	5/29/2019	18:04
Isopropylbenzene	< 8.52	ug/Kg	5/29/2019	18:04
m,p-Xylene	< 8.52	ug/Kg	5/29/2019	18:04
Methyl acetate	< 8.52	ug/Kg	5/29/2019	18:04
Methyl tert-butyl Ether	< 8.52	ug/Kg	5/29/2019	18:04
Methylcyclohexane	< 8.52	ug/Kg	5/29/2019	18:04
Methylene chloride	< 21.3	ug/Kg	5/29/2019	18:04
Naphthalene	< 21.3	ug/Kg	5/29/2019	18:04
n-Butylbenzene	< 8.52	ug/Kg	5/29/2019	18:04
n-Propylbenzene	< 8.52	ug/Kg	5/29/2019	18:04

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-01 (0-1')		
Lab Sample ID:	192228-01	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

o-Xylene	< 8.52	ug/Kg	5/29/2019	18:04
p-Isopropyltoluene	< 8.52	ug/Kg	5/29/2019	18:04
sec-Butylbenzene	< 8.52	ug/Kg	5/29/2019	18:04
Styrene	< 21.3	ug/Kg	5/29/2019	18:04
tert-Butylbenzene	< 8.52	ug/Kg	5/29/2019	18:04
Tetrachloroethene	< 8.52	ug/Kg	5/29/2019	18:04
Toluene	< 8.52	ug/Kg	5/29/2019	18:04
trans-1,2-Dichloroethene	< 8.52	ug/Kg	5/29/2019	18:04
trans-1,3-Dichloropropene	< 8.52	ug/Kg	5/29/2019	18:04
Trichloroethene	< 8.52	ug/Kg	5/29/2019	18:04
Trichlorofluoromethane	< 8.52	ug/Kg	5/29/2019	18:04
Vinyl chloride	< 8.52	ug/Kg	5/29/2019	18:04

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**102**	70.5 - 138		5/29/2019	18:04
4-Bromofluorobenzene	**81.1**	66.2 - 124		5/29/2019	18:04
Pentafluorobenzene	**95.2**	86 - 110		5/29/2019	18:04
Toluene-D8	**89.1**	81.6 - 113		5/29/2019	18:04

Internal standard outliers indicate probable matrix interference

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

Data File: x61374.D

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

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.567	mg/Kg		5/23/2019

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 5/22/2019

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-02 (0-1')		
Lab Sample ID:	192228-02	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**41.6**	mg/Kg		5/22/2019 17:14
Barium	**200**	mg/Kg		5/22/2019 17:14
Beryllium	**0.722**	mg/Kg		5/22/2019 17:14
Cadmium	**6.83**	mg/Kg		5/22/2019 17:14
Chromium	**24.6**	mg/Kg		5/22/2019 17:14
Copper	**219**	mg/Kg		5/22/2019 17:14
Lead	**997**	mg/Kg		5/22/2019 17:14
Manganese	**453**	mg/Kg		5/22/2019 17:14
Nickel	**52.7**	mg/Kg		5/22/2019 17:14
Selenium	**2.86**	mg/Kg		5/22/2019 17:14
Silver	**3.97**	mg/Kg		5/22/2019 17:14
Zinc	**1490**	mg/Kg		5/23/2019 15:36

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/21/2019
Data File: 190522B

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**2.95**	mg/Kg		6/3/2019 10:42

Method Reference(s): EPA 7471B
Preparation Date: 5/31/2019
Data File: Hg190603A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0365	mg/Kg		5/28/2019 17:52
PCB-1221	< 0.0365	mg/Kg		5/28/2019 17:52
PCB-1232	< 0.0365	mg/Kg		5/28/2019 17:52
PCB-1242	< 0.0365	mg/Kg		5/28/2019 17:52

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-02 (0-1')		
Lab Sample ID:	192228-02	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

PCB-1248	< 0.0365	mg/Kg		5/28/2019 17:52
PCB-1254	< 0.0365	mg/Kg		5/28/2019 17:52
PCB-1260	**0.0998**	mg/Kg		5/28/2019 17:52
PCB-1262	< 0.0365	mg/Kg		5/28/2019 17:52
PCB-1268	< 0.0365	mg/Kg		5/28/2019 17:52

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**46.1**	12.8 - 98.2		5/28/2019 17:52

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/24/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 73.1	ug/Kg		5/28/2019 12:08
4,4-DDE	< 73.1	ug/Kg		5/28/2019 12:08
4,4-DDT	< 73.1	ug/Kg		5/28/2019 12:08
Aldrin	< 73.1	ug/Kg		5/28/2019 12:08
alpha-BHC	< 73.1	ug/Kg		5/28/2019 12:08
beta-BHC	< 73.1	ug/Kg		5/28/2019 12:08
cis-Chlordane	< 73.1	ug/Kg		5/28/2019 12:08
delta-BHC	< 73.1	ug/Kg		5/28/2019 12:08
Dieldrin	**964**	ug/Kg		5/28/2019 12:08
Endosulfan I	< 73.1	ug/Kg		5/28/2019 12:08
Endosulfan II	< 73.1	ug/Kg		5/28/2019 12:08
Endosulfan Sulfate	< 73.1	ug/Kg		5/28/2019 12:08
Endrin	< 73.1	ug/Kg		5/28/2019 12:08
Endrin Aldehyde	< 73.1	ug/Kg		5/28/2019 12:08
Endrin Ketone	< 73.1	ug/Kg		5/28/2019 12:08
gamma-BHC (Lindane)	< 73.1	ug/Kg		5/28/2019 12:08
Heptachlor	< 73.1	ug/Kg		5/28/2019 12:08
Heptachlor Epoxide	< 73.1	ug/Kg		5/28/2019 12:08

Sample Identifier:	SB-02 (0-1')		
Lab Sample ID:	192228-02	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Methoxychlor	< 73.1	ug/Kg		5/28/2019 12:08
Toxaphene	< 731	ug/Kg		5/28/2019 12:08
trans-Chlordane	< 73.1	ug/Kg		5/28/2019 12:08

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	NC	20.6 - 144		5/28/2019 12:08
Tetrachloro-m-xylene (1)	NC	29.4 - 105		5/28/2019 12:08

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 5/24/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 384	ug/Kg		5/24/2019 20:25
1,2,4,5-Tetrachlorobenzene	< 384	ug/Kg		5/24/2019 20:25
1,2,4-Trichlorobenzene	< 384	ug/Kg		5/24/2019 20:25
1,2-Dichlorobenzene	< 384	ug/Kg		5/24/2019 20:25
1,3-Dichlorobenzene	< 384	ug/Kg		5/24/2019 20:25
1,4-Dichlorobenzene	< 384	ug/Kg		5/24/2019 20:25
2,2-Oxybis (1-chloropropane)	< 384	ug/Kg		5/24/2019 20:25
2,3,4,6-Tetrachlorophenol	< 384	ug/Kg		5/24/2019 20:25
2,4,5-Trichlorophenol	< 384	ug/Kg		5/24/2019 20:25
2,4,6-Trichlorophenol	< 384	ug/Kg		5/24/2019 20:25
2,4-Dichlorophenol	< 384	ug/Kg		5/24/2019 20:25
2,4-Dimethylphenol	< 384	ug/Kg		5/24/2019 20:25
2,4-Dinitrophenol	< 1530	ug/Kg		5/24/2019 20:25
2,4-Dinitrotoluene	< 384	ug/Kg		5/24/2019 20:25
2,6-Dinitrotoluene	< 384	ug/Kg		5/24/2019 20:25
2-Chloronaphthalene	< 384	ug/Kg		5/24/2019 20:25
2-Chlorophenol	< 384	ug/Kg		5/24/2019 20:25
2-Methylnapthalene	**1440**	ug/Kg		5/24/2019 20:25
2-Methylphenol	< 384	ug/Kg		5/24/2019 20:25

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-02 (0-1')		
Lab Sample ID:	192228-02	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

2-Nitroaniline	< 384	ug/Kg	5/24/2019 20:25
2-Nitrophenol	< 384	ug/Kg	5/24/2019 20:25
3&4-Methylphenol	< 384	ug/Kg	5/24/2019 20:25
3,3'-Dichlorobenzidine	< 384	ug/Kg	5/24/2019 20:25
3-Nitroaniline	< 384	ug/Kg	5/24/2019 20:25
4,6-Dinitro-2-methylphenol	< 513	ug/Kg	5/24/2019 20:25
4-Bromophenyl phenyl ether	< 384	ug/Kg	5/24/2019 20:25
4-Chloro-3-methylphenol	< 384	ug/Kg	5/24/2019 20:25
4-Chloroaniline	< 384	ug/Kg	5/24/2019 20:25
4-Chlorophenyl phenyl ether	< 384	ug/Kg	5/24/2019 20:25
4-Nitroaniline	< 384	ug/Kg	5/24/2019 20:25
4-Nitrophenol	< 384	ug/Kg	5/24/2019 20:25
Acenaphthene	< 384	ug/Kg	5/24/2019 20:25
Acenaphthylene	**442**	ug/Kg	5/24/2019 20:25
Acetophenone	< 384	ug/Kg	5/24/2019 20:25
Anthracene	**767**	ug/Kg	5/24/2019 20:25
Atrazine	< 384	ug/Kg	5/24/2019 20:25
Benzaldehyde	< 384	ug/Kg	5/24/2019 20:25
Benzo (a) anthracene	**1990**	ug/Kg	5/24/2019 20:25
Benzo (a) pyrene	**1790**	ug/Kg	5/24/2019 20:25
Benzo (b) fluoranthene	**2490**	ug/Kg	5/24/2019 20:25
Benzo (g,h,i) perylene	**1140**	ug/Kg	5/24/2019 20:25
Benzo (k) fluoranthene	**1610**	ug/Kg	5/24/2019 20:25
Bis (2-chloroethoxy) methane	< 384	ug/Kg	5/24/2019 20:25
Bis (2-chloroethyl) ether	< 384	ug/Kg	5/24/2019 20:25
Bis (2-ethylhexyl) phthalate	< 384	ug/Kg	5/24/2019 20:25
Butylbenzylphthalate	< 384	ug/Kg	5/24/2019 20:25
Caprolactam	< 384	ug/Kg	5/24/2019 20:25
Carbazole	**391**	ug/Kg	5/24/2019 20:25
Chrysene	**2340**	ug/Kg	5/24/2019 20:25

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-02 (0-1')		
Lab Sample ID:	192228-02	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Dibenz (a,h) anthracene	**434**	ug/Kg	5/24/2019	20:25
Dibenzofuran	**475**	ug/Kg	5/24/2019	20:25
Diethyl phthalate	< 384	ug/Kg	5/24/2019	20:25
Dimethyl phthalate	< 384	ug/Kg	5/24/2019	20:25
Di-n-butyl phthalate	< 384	ug/Kg	5/24/2019	20:25
Di-n-octylphthalate	< 384	ug/Kg	5/24/2019	20:25
Fluoranthene	**3990**	ug/Kg	5/24/2019	20:25
Fluorene	< 384	ug/Kg	5/24/2019	20:25
Hexachlorobenzene	< 384	ug/Kg	5/24/2019	20:25
Hexachlorobutadiene	< 384	ug/Kg	5/24/2019	20:25
Hexachlorocyclopentadiene	< 1530	ug/Kg	5/24/2019	20:25
Hexachloroethane	< 384	ug/Kg	5/24/2019	20:25
Indeno (1,2,3-cd) pyrene	**1210**	ug/Kg	5/24/2019	20:25
Isophorone	< 384	ug/Kg	5/24/2019	20:25
Naphthalene	**1090**	ug/Kg	5/24/2019	20:25
Nitrobenzene	< 384	ug/Kg	5/24/2019	20:25
N-Nitroso-di-n-propylamine	< 384	ug/Kg	5/24/2019	20:25
N-Nitrosodiphenylamine	< 384	ug/Kg	5/24/2019	20:25
Pentachlorophenol	< 767	ug/Kg	5/24/2019	20:25
Phenanthrene	**2960**	ug/Kg	5/24/2019	20:25
Phenol	< 384	ug/Kg	5/24/2019	20:25
Pyrene	**3430**	ug/Kg	5/24/2019	20:25

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-02 (0-1')		
Lab Sample ID:	192228-02	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**51.5**	34.8 - 95.1		5/24/2019 20:25
2-Fluorobiphenyl	**52.2**	34.1 - 82		5/24/2019 20:25
2-Fluorophenol	**47.8**	34.7 - 81.4		5/24/2019 20:25
Nitrobenzene-d5	**54.7**	31.2 - 77.2		5/24/2019 20:25
Phenol-d5	**51.8**	36 - 82.6		5/24/2019 20:25
Terphenyl-d14	**55.9**	37.7 - 94.8		5/24/2019 20:25

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/20/2019
Data File: B37307.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.27	ug/Kg		5/29/2019 18:27
1,1,2,2-Tetrachloroethane	< 8.27	ug/Kg		5/29/2019 18:27
1,1,2-Trichloroethane	< 8.27	ug/Kg		5/29/2019 18:27
1,1-Dichloroethane	< 8.27	ug/Kg		5/29/2019 18:27
1,1-Dichloroethene	< 8.27	ug/Kg		5/29/2019 18:27
1,2,3-Trichlorobenzene	< 20.7	ug/Kg		5/29/2019 18:27
1,2,4-Trichlorobenzene	< 20.7	ug/Kg		5/29/2019 18:27
1,2,4-Trimethylbenzene	< 8.27	ug/Kg		5/29/2019 18:27
1,2-Dibromo-3-Chloropropane	< 41.4	ug/Kg		5/29/2019 18:27
1,2-Dibromoethane	< 8.27	ug/Kg		5/29/2019 18:27
1,2-Dichlorobenzene	< 8.27	ug/Kg		5/29/2019 18:27
1,2-Dichloroethane	< 8.27	ug/Kg		5/29/2019 18:27
1,2-Dichloropropane	< 8.27	ug/Kg		5/29/2019 18:27
1,3,5-Trimethylbenzene	< 8.27	ug/Kg		5/29/2019 18:27
1,3-Dichlorobenzene	< 8.27	ug/Kg		5/29/2019 18:27
1,4-Dichlorobenzene	< 8.27	ug/Kg		5/29/2019 18:27
1,4-Dioxane	< 82.7	ug/Kg		5/29/2019 18:27
2-Butanone	< 41.4	ug/Kg		5/29/2019 18:27

Sample Identifier:	SB-02 (0-1')		
Lab Sample ID:	192228-02	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

2-Hexanone	< 20.7	ug/Kg	5/29/2019	18:27
4-Methyl-2-pentanone	< 20.7	ug/Kg	5/29/2019	18:27
Acetone	< 41.4	ug/Kg	5/29/2019	18:27
Benzene	< 8.27	ug/Kg	5/29/2019	18:27
Bromochloromethane	< 20.7	ug/Kg	5/29/2019	18:27
Bromodichloromethane	< 8.27	ug/Kg	5/29/2019	18:27
Bromoform	< 20.7	ug/Kg	5/29/2019	18:27
Bromomethane	< 8.27	ug/Kg	5/29/2019	18:27
Carbon disulfide	< 8.27	ug/Kg	5/29/2019	18:27
Carbon Tetrachloride	< 8.27	ug/Kg	5/29/2019	18:27
Chlorobenzene	< 8.27	ug/Kg	5/29/2019	18:27
Chloroethane	< 8.27	ug/Kg	5/29/2019	18:27
Chloroform	< 8.27	ug/Kg	5/29/2019	18:27
Chloromethane	< 8.27	ug/Kg	5/29/2019	18:27
cis-1,2-Dichloroethene	< 8.27	ug/Kg	5/29/2019	18:27
cis-1,3-Dichloropropene	< 8.27	ug/Kg	5/29/2019	18:27
Cyclohexane	< 41.4	ug/Kg	5/29/2019	18:27
Dibromochloromethane	< 8.27	ug/Kg	5/29/2019	18:27
Dichlorodifluoromethane	< 8.27	ug/Kg	5/29/2019	18:27
Ethylbenzene	< 8.27	ug/Kg	5/29/2019	18:27
Freon 113	< 8.27	ug/Kg	5/29/2019	18:27
Isopropylbenzene	< 8.27	ug/Kg	5/29/2019	18:27
m,p-Xylene	< 8.27	ug/Kg	5/29/2019	18:27
Methyl acetate	< 8.27	ug/Kg	5/29/2019	18:27
Methyl tert-butyl Ether	< 8.27	ug/Kg	5/29/2019	18:27
Methylcyclohexane	< 8.27	ug/Kg	5/29/2019	18:27
Methylene chloride	< 20.7	ug/Kg	5/29/2019	18:27
Naphthalene	< 20.7	ug/Kg	5/29/2019	18:27
n-Butylbenzene	< 8.27	ug/Kg	5/29/2019	18:27
n-Propylbenzene	< 8.27	ug/Kg	5/29/2019	18:27

Sample Identifier:	SB-02 (0-1')		
Lab Sample ID:	192228-02	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

o-Xylene	< 8.27	ug/Kg	5/29/2019	18:27
p-Isopropyltoluene	< 8.27	ug/Kg	5/29/2019	18:27
sec-Butylbenzene	< 8.27	ug/Kg	5/29/2019	18:27
Styrene	< 20.7	ug/Kg	5/29/2019	18:27
tert-Butylbenzene	< 8.27	ug/Kg	5/29/2019	18:27
Tetrachloroethene	< 8.27	ug/Kg	5/29/2019	18:27
Toluene	< 8.27	ug/Kg	5/29/2019	18:27
trans-1,2-Dichloroethene	< 8.27	ug/Kg	5/29/2019	18:27
trans-1,3-Dichloropropene	< 8.27	ug/Kg	5/29/2019	18:27
Trichloroethene	< 8.27	ug/Kg	5/29/2019	18:27
Trichlorofluoromethane	< 8.27	ug/Kg	5/29/2019	18:27
Vinyl chloride	< 8.27	ug/Kg	5/29/2019	18:27

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**99.6**	70.5 - 138		5/29/2019	18:27
4-Bromofluorobenzene	**85.0**	66.2 - 124		5/29/2019	18:27
Pentafluorobenzene	**98.2**	86 - 110		5/29/2019	18:27
Toluene-D8	**94.4**	81.6 - 113		5/29/2019	18:27

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

Data File: x61375.D

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

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.601	mg/Kg		5/23/2019

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 5/22/2019

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-03 (0-1')		
Lab Sample ID:	192228-03	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**8.25**	mg/Kg		5/22/2019 17:27
Barium	**101**	mg/Kg		5/22/2019 17:27
Beryllium	**0.763**	mg/Kg		5/22/2019 17:27
Cadmium	**2.29**	mg/Kg		5/22/2019 17:27
Chromium	**13.7**	mg/Kg		5/22/2019 17:27
Copper	**58.5**	mg/Kg		5/22/2019 17:27
Lead	**189**	mg/Kg		5/22/2019 17:27
Manganese	**499**	mg/Kg		5/22/2019 17:27
Nickel	**11.5**	mg/Kg		5/22/2019 17:27
Selenium	**1.43**	mg/Kg		5/22/2019 17:27
Silver	**0.768**	mg/Kg		5/22/2019 17:27
Zinc	**240**	mg/Kg		5/22/2019 17:27

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/21/2019
Data File: 190522B

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**4.25**	mg/Kg		6/3/2019 10:47

Method Reference(s): EPA 7471B
Preparation Date: 5/31/2019
Data File: Hg190603A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0305	mg/Kg		5/28/2019 18:15
PCB-1221	< 0.0305	mg/Kg		5/28/2019 18:15
PCB-1232	< 0.0305	mg/Kg		5/28/2019 18:15
PCB-1242	< 0.0305	mg/Kg		5/28/2019 18:15

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-03 (0-1')		
Lab Sample ID:	192228-03	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

PCB-1248	< 0.0305	mg/Kg		5/28/2019 18:15
PCB-1254	< 0.0305	mg/Kg		5/28/2019 18:15
PCB-1260	< 0.0305	mg/Kg		5/28/2019 18:15
PCB-1262	< 0.0305	mg/Kg		5/28/2019 18:15
PCB-1268	< 0.0305	mg/Kg		5/28/2019 18:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**53.5**	12.8 - 98.2		5/28/2019 18:15

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/24/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 61.0	ug/Kg		5/28/2019 12:27
4,4-DDE	< 61.0	ug/Kg		5/28/2019 12:27
4,4-DDT	< 61.0	ug/Kg		5/28/2019 12:27
Aldrin	< 61.0	ug/Kg		5/28/2019 12:27
alpha-BHC	< 61.0	ug/Kg		5/28/2019 12:27
beta-BHC	< 61.0	ug/Kg		5/28/2019 12:27
cis-Chlordane	< 61.0	ug/Kg		5/28/2019 12:27
delta-BHC	**118**	ug/Kg		5/28/2019 12:27
Dieldrin	**437**	ug/Kg		5/28/2019 12:27
Endosulfan I	< 61.0	ug/Kg		5/28/2019 12:27
Endosulfan II	< 61.0	ug/Kg		5/28/2019 12:27
Endosulfan Sulfate	< 61.0	ug/Kg		5/28/2019 12:27
Endrin	< 61.0	ug/Kg		5/28/2019 12:27
Endrin Aldehyde	< 61.0	ug/Kg		5/28/2019 12:27
Endrin Ketone	< 61.0	ug/Kg		5/28/2019 12:27
gamma-BHC (Lindane)	**171**	ug/Kg		5/28/2019 12:27
Heptachlor	< 61.0	ug/Kg		5/28/2019 12:27
Heptachlor Epoxide	< 61.0	ug/Kg		5/28/2019 12:27

Sample Identifier:	SB-03 (0-1')		
Lab Sample ID:	192228-03	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Methoxychlor	< 61.0	ug/Kg		5/28/2019 12:27
Toxaphene	< 610	ug/Kg		5/28/2019 12:27
trans-Chlordane	< 61.0	ug/Kg		5/28/2019 12:27

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	NC	20.6 - 144		5/28/2019 12:27
Tetrachloro-m-xylene (1)	NC	29.4 - 105		5/28/2019 12:27

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 5/24/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 278	ug/Kg		5/24/2019 20:55
1,2,4,5-Tetrachlorobenzene	< 278	ug/Kg		5/24/2019 20:55
1,2,4-Trichlorobenzene	< 278	ug/Kg		5/24/2019 20:55
1,2-Dichlorobenzene	< 278	ug/Kg		5/24/2019 20:55
1,3-Dichlorobenzene	< 278	ug/Kg		5/24/2019 20:55
1,4-Dichlorobenzene	< 278	ug/Kg		5/24/2019 20:55
2,2-Oxybis (1-chloropropane)	< 278	ug/Kg		5/24/2019 20:55
2,3,4,6-Tetrachlorophenol	< 278	ug/Kg		5/24/2019 20:55
2,4,5-Trichlorophenol	< 278	ug/Kg		5/24/2019 20:55
2,4,6-Trichlorophenol	< 278	ug/Kg		5/24/2019 20:55
2,4-Dichlorophenol	< 278	ug/Kg		5/24/2019 20:55
2,4-Dimethylphenol	< 278	ug/Kg		5/24/2019 20:55
2,4-Dinitrophenol	< 1110	ug/Kg		5/24/2019 20:55
2,4-Dinitrotoluene	< 278	ug/Kg		5/24/2019 20:55
2,6-Dinitrotoluene	< 278	ug/Kg		5/24/2019 20:55
2-Chloronaphthalene	< 278	ug/Kg		5/24/2019 20:55
2-Chlorophenol	< 278	ug/Kg		5/24/2019 20:55
2-Methylnapthalene	**289**	ug/Kg		5/24/2019 20:55
2-Methylphenol	< 278	ug/Kg		5/24/2019 20:55

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-03 (0-1')		
Lab Sample ID:	192228-03	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

2-Nitroaniline	< 278	ug/Kg	5/24/2019 20:55
2-Nitrophenol	< 278	ug/Kg	5/24/2019 20:55
3&4-Methylphenol	< 278	ug/Kg	5/24/2019 20:55
3,3'-Dichlorobenzidine	< 278	ug/Kg	5/24/2019 20:55
3-Nitroaniline	< 278	ug/Kg	5/24/2019 20:55
4,6-Dinitro-2-methylphenol	< 372	ug/Kg	5/24/2019 20:55
4-Bromophenyl phenyl ether	< 278	ug/Kg	5/24/2019 20:55
4-Chloro-3-methylphenol	< 278	ug/Kg	5/24/2019 20:55
4-Chloroaniline	< 278	ug/Kg	5/24/2019 20:55
4-Chlorophenyl phenyl ether	< 278	ug/Kg	5/24/2019 20:55
4-Nitroaniline	< 278	ug/Kg	5/24/2019 20:55
4-Nitrophenol	< 278	ug/Kg	5/24/2019 20:55
Acenaphthene	**456**	ug/Kg	5/24/2019 20:55
Acenaphthylene	**818**	ug/Kg	5/24/2019 20:55
Acetophenone	< 278	ug/Kg	5/24/2019 20:55
Anthracene	**2120**	ug/Kg	5/24/2019 20:55
Atrazine	< 278	ug/Kg	5/24/2019 20:55
Benzaldehyde	< 278	ug/Kg	5/24/2019 20:55
Benzo (a) anthracene	**4220**	ug/Kg	5/24/2019 20:55
Benzo (a) pyrene	**3450**	ug/Kg	5/24/2019 20:55
Benzo (b) fluoranthene	**3730**	ug/Kg	5/24/2019 20:55
Benzo (g,h,i) perylene	**2070**	ug/Kg	5/24/2019 20:55
Benzo (k) fluoranthene	**2560**	ug/Kg	5/24/2019 20:55
Bis (2-chloroethoxy) methane	< 278	ug/Kg	5/24/2019 20:55
Bis (2-chloroethyl) ether	< 278	ug/Kg	5/24/2019 20:55
Bis (2-ethylhexyl) phthalate	< 278	ug/Kg	5/24/2019 20:55
Butylbenzylphthalate	< 278	ug/Kg	5/24/2019 20:55
Caprolactam	< 278	ug/Kg	5/24/2019 20:55
Carbazole	**819**	ug/Kg	5/24/2019 20:55
Chrysene	**3750**	ug/Kg	5/24/2019 20:55

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-03 (0-1')		
Lab Sample ID:	192228-03	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Dibenz (a,h) anthracene	**802**	ug/Kg	5/24/2019	20:55
Dibenzofuran	**358**	ug/Kg	5/24/2019	20:55
Diethyl phthalate	< 278	ug/Kg	5/24/2019	20:55
Dimethyl phthalate	< 278	ug/Kg	5/24/2019	20:55
Di-n-butyl phthalate	< 278	ug/Kg	5/24/2019	20:55
Di-n-octylphthalate	< 278	ug/Kg	5/24/2019	20:55
Fluoranthene	**8610**	ug/Kg	5/24/2019	20:55
Fluorene	**644**	ug/Kg	5/24/2019	20:55
Hexachlorobenzene	< 278	ug/Kg	5/24/2019	20:55
Hexachlorobutadiene	< 278	ug/Kg	5/24/2019	20:55
Hexachlorocyclopentadiene	< 1110	ug/Kg	5/24/2019	20:55
Hexachloroethane	< 278	ug/Kg	5/24/2019	20:55
Indeno (1,2,3-cd) pyrene	**2240**	ug/Kg	5/24/2019	20:55
Isophorone	< 278	ug/Kg	5/24/2019	20:55
Naphthalene	**337**	ug/Kg	5/24/2019	20:55
Nitrobenzene	< 278	ug/Kg	5/24/2019	20:55
N-Nitroso-di-n-propylamine	< 278	ug/Kg	5/24/2019	20:55
N-Nitrosodiphenylamine	< 278	ug/Kg	5/24/2019	20:55
Pentachlorophenol	< 557	ug/Kg	5/24/2019	20:55
Phenanthrene	**6570**	ug/Kg	5/24/2019	20:55
Phenol	< 278	ug/Kg	5/24/2019	20:55
Pyrene	**7120**	ug/Kg	5/24/2019	20:55

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-03 (0-1')		
Lab Sample ID:	192228-03	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**65.2**	34.8 - 95.1		5/24/2019 20:55
2-Fluorobiphenyl	**62.4**	34.1 - 82		5/24/2019 20:55
2-Fluorophenol	**65.9**	34.7 - 81.4		5/24/2019 20:55
Nitrobenzene-d5	**67.9**	31.2 - 77.2		5/24/2019 20:55
Phenol-d5	**68.6**	36 - 82.6		5/24/2019 20:55
Terphenyl-d14	**66.2**	37.7 - 94.8		5/24/2019 20:55

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/20/2019
Data File: B37308.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 6.98	ug/Kg		5/29/2019 18:51
1,1,2,2-Tetrachloroethane	< 6.98	ug/Kg		5/29/2019 18:51
1,1,2-Trichloroethane	< 6.98	ug/Kg		5/29/2019 18:51
1,1-Dichloroethane	< 6.98	ug/Kg		5/29/2019 18:51
1,1-Dichloroethene	< 6.98	ug/Kg		5/29/2019 18:51
1,2,3-Trichlorobenzene	< 17.5	ug/Kg		5/29/2019 18:51
1,2,4-Trichlorobenzene	< 17.5	ug/Kg		5/29/2019 18:51
1,2,4-Trimethylbenzene	< 6.98	ug/Kg		5/29/2019 18:51
1,2-Dibromo-3-Chloropropane	< 34.9	ug/Kg		5/29/2019 18:51
1,2-Dibromoethane	< 6.98	ug/Kg		5/29/2019 18:51
1,2-Dichlorobenzene	< 6.98	ug/Kg		5/29/2019 18:51
1,2-Dichloroethane	< 6.98	ug/Kg		5/29/2019 18:51
1,2-Dichloropropane	< 6.98	ug/Kg		5/29/2019 18:51
1,3,5-Trimethylbenzene	< 6.98	ug/Kg		5/29/2019 18:51
1,3-Dichlorobenzene	< 6.98	ug/Kg		5/29/2019 18:51
1,4-Dichlorobenzene	< 6.98	ug/Kg		5/29/2019 18:51
1,4-Dioxane	< 69.8	ug/Kg		5/29/2019 18:51
2-Butanone	< 34.9	ug/Kg		5/29/2019 18:51

Sample Identifier:	SB-03 (0-1')		
Lab Sample ID:	192228-03	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

2-Hexanone	< 17.5	ug/Kg	5/29/2019	18:51
4-Methyl-2-pentanone	< 17.5	ug/Kg	5/29/2019	18:51
Acetone	< 34.9	ug/Kg	5/29/2019	18:51
Benzene	< 6.98	ug/Kg	5/29/2019	18:51
Bromochloromethane	< 17.5	ug/Kg	5/29/2019	18:51
Bromodichloromethane	< 6.98	ug/Kg	5/29/2019	18:51
Bromoform	< 17.5	ug/Kg	5/29/2019	18:51
Bromomethane	< 6.98	ug/Kg	5/29/2019	18:51
Carbon disulfide	< 6.98	ug/Kg	5/29/2019	18:51
Carbon Tetrachloride	< 6.98	ug/Kg	5/29/2019	18:51
Chlorobenzene	< 6.98	ug/Kg	5/29/2019	18:51
Chloroethane	< 6.98	ug/Kg	5/29/2019	18:51
Chloroform	< 6.98	ug/Kg	5/29/2019	18:51
Chloromethane	< 6.98	ug/Kg	5/29/2019	18:51
cis-1,2-Dichloroethene	< 6.98	ug/Kg	5/29/2019	18:51
cis-1,3-Dichloropropene	< 6.98	ug/Kg	5/29/2019	18:51
Cyclohexane	< 34.9	ug/Kg	5/29/2019	18:51
Dibromochloromethane	< 6.98	ug/Kg	5/29/2019	18:51
Dichlorodifluoromethane	< 6.98	ug/Kg	5/29/2019	18:51
Ethylbenzene	< 6.98	ug/Kg	5/29/2019	18:51
Freon 113	< 6.98	ug/Kg	5/29/2019	18:51
Isopropylbenzene	< 6.98	ug/Kg	5/29/2019	18:51
m,p-Xylene	< 6.98	ug/Kg	5/29/2019	18:51
Methyl acetate	< 6.98	ug/Kg	5/29/2019	18:51
Methyl tert-butyl Ether	< 6.98	ug/Kg	5/29/2019	18:51
Methylcyclohexane	< 6.98	ug/Kg	5/29/2019	18:51
Methylene chloride	< 17.5	ug/Kg	5/29/2019	18:51
Naphthalene	< 17.5	ug/Kg	5/29/2019	18:51
n-Butylbenzene	< 6.98	ug/Kg	5/29/2019	18:51
n-Propylbenzene	< 6.98	ug/Kg	5/29/2019	18:51

Sample Identifier:	SB-03 (0-1')		
Lab Sample ID:	192228-03	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

o-Xylene	< 6.98	ug/Kg		5/29/2019 18:51
p-Isopropyltoluene	< 6.98	ug/Kg		5/29/2019 18:51
sec-Butylbenzene	< 6.98	ug/Kg		5/29/2019 18:51
Styrene	< 17.5	ug/Kg		5/29/2019 18:51
tert-Butylbenzene	< 6.98	ug/Kg		5/29/2019 18:51
Tetrachloroethene	< 6.98	ug/Kg		5/29/2019 18:51
Toluene	< 6.98	ug/Kg		5/29/2019 18:51
trans-1,2-Dichloroethene	< 6.98	ug/Kg		5/29/2019 18:51
trans-1,3-Dichloropropene	< 6.98	ug/Kg		5/29/2019 18:51
Trichloroethene	< 6.98	ug/Kg		5/29/2019 18:51
Trichlorofluoromethane	< 6.98	ug/Kg		5/29/2019 18:51
Vinyl chloride	< 6.98	ug/Kg		5/29/2019 18:51

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**102**	70.5 - 138		5/29/2019 18:51
4-Bromofluorobenzene	**84.0**	66.2 - 124		5/29/2019 18:51
Pentafluorobenzene	**96.7**	86 - 110		5/29/2019 18:51
Toluene-D8	**93.0**	81.6 - 113		5/29/2019 18:51

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

Data File: x61376.D

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

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.538	mg/Kg		5/23/2019

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 5/22/2019

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-04 (0-1')		
Lab Sample ID:	192228-04	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**6.07**	mg/Kg		5/22/2019 17:31
Barium	**34.1**	mg/Kg		5/22/2019 17:31
Beryllium	< 0.269	mg/Kg		5/22/2019 17:31
Cadmium	**1.93**	mg/Kg		5/22/2019 17:31
Chromium	**5.65**	mg/Kg		5/22/2019 17:31
Copper	**10.0**	mg/Kg		5/22/2019 17:31
Lead	**166**	mg/Kg		5/22/2019 17:31
Manganese	**941**	mg/Kg		5/23/2019 15:40
Nickel	**5.29**	mg/Kg		5/22/2019 17:31
Selenium	< 1.08	mg/Kg		5/22/2019 17:31
Silver	< 0.538	mg/Kg		5/22/2019 17:31
Zinc	**423**	mg/Kg		5/22/2019 17:31

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/21/2019
Data File: 190522B

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.127**	mg/Kg		6/3/2019 09:28

Method Reference(s): EPA 7471B
Preparation Date: 5/31/2019
Data File: Hg190603A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0290	mg/Kg		5/28/2019 18:38
PCB-1221	< 0.0290	mg/Kg		5/28/2019 18:38
PCB-1232	< 0.0290	mg/Kg		5/28/2019 18:38
PCB-1242	< 0.0290	mg/Kg		5/28/2019 18:38

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-04 (0-1')		
Lab Sample ID:	192228-04	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

PCB-1248	< 0.0290	mg/Kg		5/28/2019 18:38
PCB-1254	< 0.0290	mg/Kg		5/28/2019 18:38
PCB-1260	< 0.0290	mg/Kg		5/28/2019 18:38
PCB-1262	< 0.0290	mg/Kg		5/28/2019 18:38
PCB-1268	< 0.0290	mg/Kg		5/28/2019 18:38

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**36.5**	12.8 - 98.2		5/28/2019 18:38

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/24/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**5.52**	ug/Kg		5/24/2019 15:11
4,4-DDE	< 2.90	ug/Kg		5/24/2019 15:11
4,4-DDT	**12.7**	ug/Kg		5/24/2019 15:11
Aldrin	< 2.90	ug/Kg		5/24/2019 15:11
alpha-BHC	< 2.90	ug/Kg		5/24/2019 15:11
beta-BHC	< 2.90	ug/Kg		5/24/2019 15:11
cis-Chlordane	**15.9**	ug/Kg		5/24/2019 15:11
delta-BHC	**13.4**	ug/Kg		5/24/2019 15:11
Dieldrin	**6.60**	ug/Kg	P	5/24/2019 15:11
Endosulfan I	< 2.90	ug/Kg		5/24/2019 15:11
Endosulfan II	< 2.90	ug/Kg		5/24/2019 15:11
Endosulfan Sulfate	**8.33**	ug/Kg	P	5/24/2019 15:11
Endrin	**5.75**	ug/Kg	P	5/24/2019 15:11
Endrin Aldehyde	< 2.90	ug/Kg		5/24/2019 15:11
Endrin Ketone	**6.00**	ug/Kg	P	5/24/2019 15:11
gamma-BHC (Lindane)	**4.43**	ug/Kg	P	5/24/2019 15:11
Heptachlor	< 2.90	ug/Kg		5/24/2019 15:11
Heptachlor Epoxide	< 2.90	ug/Kg		5/24/2019 15:11

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-04 (0-1')		
Lab Sample ID:	192228-04	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Methoxychlor	**22.0**	ug/Kg		5/24/2019 15:11
Toxaphene	< 29.0	ug/Kg		5/24/2019 15:11
trans-Chlordane	**13.8**	ug/Kg		5/24/2019 15:11

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**274**	20.6 - 144	*	5/24/2019 15:11
Tetrachloro-m-xylene (1)	**48.2**	29.4 - 105		5/24/2019 15:11

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 5/24/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 1420	ug/Kg		5/24/2019 21:24
1,2,4,5-Tetrachlorobenzene	< 1420	ug/Kg		5/24/2019 21:24
1,2,4-Trichlorobenzene	< 1420	ug/Kg		5/24/2019 21:24
1,2-Dichlorobenzene	< 1420	ug/Kg		5/24/2019 21:24
1,3-Dichlorobenzene	< 1420	ug/Kg		5/24/2019 21:24
1,4-Dichlorobenzene	< 1420	ug/Kg		5/24/2019 21:24
2,2-Oxybis (1-chloropropane)	< 1420	ug/Kg		5/24/2019 21:24
2,3,4,6-Tetrachlorophenol	< 1420	ug/Kg		5/24/2019 21:24
2,4,5-Trichlorophenol	< 1420	ug/Kg		5/24/2019 21:24
2,4,6-Trichlorophenol	< 1420	ug/Kg		5/24/2019 21:24
2,4-Dichlorophenol	< 1420	ug/Kg		5/24/2019 21:24
2,4-Dimethylphenol	< 1420	ug/Kg		5/24/2019 21:24
2,4-Dinitrophenol	< 5680	ug/Kg		5/24/2019 21:24
2,4-Dinitrotoluene	< 1420	ug/Kg		5/24/2019 21:24
2,6-Dinitrotoluene	< 1420	ug/Kg		5/24/2019 21:24
2-Chloronaphthalene	< 1420	ug/Kg		5/24/2019 21:24
2-Chlorophenol	< 1420	ug/Kg		5/24/2019 21:24
2-Methylnapthalene	< 1420	ug/Kg		5/24/2019 21:24
2-Methylphenol	< 1420	ug/Kg		5/24/2019 21:24

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-04 (0-1')		
Lab Sample ID:	192228-04	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

2-Nitroaniline	< 1420	ug/Kg	5/24/2019 21:24
2-Nitrophenol	< 1420	ug/Kg	5/24/2019 21:24
3&4-Methylphenol	< 1420	ug/Kg	5/24/2019 21:24
3,3'-Dichlorobenzidine	< 1420	ug/Kg	5/24/2019 21:24
3-Nitroaniline	< 1420	ug/Kg	5/24/2019 21:24
4,6-Dinitro-2-methylphenol	< 1900	ug/Kg	5/24/2019 21:24
4-Bromophenyl phenyl ether	< 1420	ug/Kg	5/24/2019 21:24
4-Chloro-3-methylphenol	< 1420	ug/Kg	5/24/2019 21:24
4-Chloroaniline	< 1420	ug/Kg	5/24/2019 21:24
4-Chlorophenyl phenyl ether	< 1420	ug/Kg	5/24/2019 21:24
4-Nitroaniline	< 1420	ug/Kg	5/24/2019 21:24
4-Nitrophenol	< 1420	ug/Kg	5/24/2019 21:24
Acenaphthene	< 1420	ug/Kg	5/24/2019 21:24
Acenaphthylene	< 1420	ug/Kg	5/24/2019 21:24
Acetophenone	< 1420	ug/Kg	5/24/2019 21:24
Anthracene	**3060**	ug/Kg	5/24/2019 21:24
Atrazine	< 1420	ug/Kg	5/24/2019 21:24
Benzaldehyde	< 1420	ug/Kg	5/24/2019 21:24
Benzo (a) anthracene	**6820**	ug/Kg	5/24/2019 21:24
Benzo (a) pyrene	**6770**	ug/Kg	5/24/2019 21:24
Benzo (b) fluoranthene	**6570**	ug/Kg	5/24/2019 21:24
Benzo (g,h,i) perylene	**4170**	ug/Kg	5/24/2019 21:24
Benzo (k) fluoranthene	**5900**	ug/Kg	5/24/2019 21:24
Bis (2-chloroethoxy) methane	< 1420	ug/Kg	5/24/2019 21:24
Bis (2-chloroethyl) ether	< 1420	ug/Kg	5/24/2019 21:24
Bis (2-ethylhexyl) phthalate	< 1420	ug/Kg	5/24/2019 21:24
Butylbenzylphthalate	< 1420	ug/Kg	5/24/2019 21:24
Caprolactam	< 1420	ug/Kg	5/24/2019 21:24
Carbazole	< 1420	ug/Kg	5/24/2019 21:24
Chrysene	**6420**	ug/Kg	5/24/2019 21:24

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-04 (0-1')		
Lab Sample ID:	192228-04	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Dibenz (a,h) anthracene	**1430**	ug/Kg	5/24/2019	21:24
Dibenzofuran	< 1420	ug/Kg	5/24/2019	21:24
Diethyl phthalate	< 1420	ug/Kg	5/24/2019	21:24
Dimethyl phthalate	< 1420	ug/Kg	5/24/2019	21:24
Di-n-butyl phthalate	< 1420	ug/Kg	5/24/2019	21:24
Di-n-octylphthalate	< 1420	ug/Kg	5/24/2019	21:24
Fluoranthene	**13800**	ug/Kg	5/24/2019	21:24
Fluorene	< 1420	ug/Kg	5/24/2019	21:24
Hexachlorobenzene	< 1420	ug/Kg	5/24/2019	21:24
Hexachlorobutadiene	< 1420	ug/Kg	5/24/2019	21:24
Hexachlorocyclopentadiene	< 5680	ug/Kg	5/24/2019	21:24
Hexachloroethane	< 1420	ug/Kg	5/24/2019	21:24
Indeno (1,2,3-cd) pyrene	**4460**	ug/Kg	5/24/2019	21:24
Isophorone	< 1420	ug/Kg	5/24/2019	21:24
Naphthalene	< 1420	ug/Kg	5/24/2019	21:24
Nitrobenzene	< 1420	ug/Kg	5/24/2019	21:24
N-Nitroso-di-n-propylamine	< 1420	ug/Kg	5/24/2019	21:24
N-Nitrosodiphenylamine	< 1420	ug/Kg	5/24/2019	21:24
Pentachlorophenol	< 2840	ug/Kg	5/24/2019	21:24
Phenanthrene	**8800**	ug/Kg	5/24/2019	21:24
Phenol	< 1420	ug/Kg	5/24/2019	21:24
Pyrene	**11300**	ug/Kg	5/24/2019	21:24

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-04 (0-1')		
Lab Sample ID:	192228-04	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**60.7**	34.8 - 95.1		5/24/2019 21:24
2-Fluorobiphenyl	**61.0**	34.1 - 82		5/24/2019 21:24
2-Fluorophenol	**66.2**	34.7 - 81.4		5/24/2019 21:24
Nitrobenzene-d5	**65.8**	31.2 - 77.2		5/24/2019 21:24
Phenol-d5	**68.1**	36 - 82.6		5/24/2019 21:24
Terphenyl-d14	**66.0**	37.7 - 94.8		5/24/2019 21:24

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/20/2019
Data File: B37309.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 7.08	ug/Kg		5/29/2019 19:14
1,1,2,2-Tetrachloroethane	< 7.08	ug/Kg		5/29/2019 19:14
1,1,2-Trichloroethane	< 7.08	ug/Kg		5/29/2019 19:14
1,1-Dichloroethane	< 7.08	ug/Kg		5/29/2019 19:14
1,1-Dichloroethene	< 7.08	ug/Kg		5/29/2019 19:14
1,2,3-Trichlorobenzene	< 17.7	ug/Kg		5/29/2019 19:14
1,2,4-Trichlorobenzene	< 17.7	ug/Kg		5/29/2019 19:14
1,2,4-Trimethylbenzene	< 7.08	ug/Kg		5/29/2019 19:14
1,2-Dibromo-3-Chloropropane	< 35.4	ug/Kg		5/29/2019 19:14
1,2-Dibromoethane	< 7.08	ug/Kg		5/29/2019 19:14
1,2-Dichlorobenzene	< 7.08	ug/Kg		5/29/2019 19:14
1,2-Dichloroethane	< 7.08	ug/Kg		5/29/2019 19:14
1,2-Dichloropropane	< 7.08	ug/Kg		5/29/2019 19:14
1,3,5-Trimethylbenzene	< 7.08	ug/Kg		5/29/2019 19:14
1,3-Dichlorobenzene	< 7.08	ug/Kg		5/29/2019 19:14
1,4-Dichlorobenzene	< 7.08	ug/Kg		5/29/2019 19:14
1,4-Dioxane	< 70.8	ug/Kg		5/29/2019 19:14
2-Butanone	< 35.4	ug/Kg		5/29/2019 19:14

Sample Identifier:	SB-04 (0-1')		
Lab Sample ID:	192228-04	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

2-Hexanone	< 17.7	ug/Kg	5/29/2019	19:14
4-Methyl-2-pentanone	< 17.7	ug/Kg	5/29/2019	19:14
Acetone	< 35.4	ug/Kg	5/29/2019	19:14
Benzene	< 7.08	ug/Kg	5/29/2019	19:14
Bromochloromethane	< 17.7	ug/Kg	5/29/2019	19:14
Bromodichloromethane	< 7.08	ug/Kg	5/29/2019	19:14
Bromoform	< 17.7	ug/Kg	5/29/2019	19:14
Bromomethane	< 7.08	ug/Kg	5/29/2019	19:14
Carbon disulfide	< 7.08	ug/Kg	5/29/2019	19:14
Carbon Tetrachloride	< 7.08	ug/Kg	5/29/2019	19:14
Chlorobenzene	< 7.08	ug/Kg	5/29/2019	19:14
Chloroethane	< 7.08	ug/Kg	5/29/2019	19:14
Chloroform	< 7.08	ug/Kg	5/29/2019	19:14
Chloromethane	< 7.08	ug/Kg	5/29/2019	19:14
cis-1,2-Dichloroethene	< 7.08	ug/Kg	5/29/2019	19:14
cis-1,3-Dichloropropene	< 7.08	ug/Kg	5/29/2019	19:14
Cyclohexane	< 35.4	ug/Kg	5/29/2019	19:14
Dibromochloromethane	< 7.08	ug/Kg	5/29/2019	19:14
Dichlorodifluoromethane	< 7.08	ug/Kg	5/29/2019	19:14
Ethylbenzene	< 7.08	ug/Kg	5/29/2019	19:14
Freon 113	< 7.08	ug/Kg	5/29/2019	19:14
Isopropylbenzene	< 7.08	ug/Kg	5/29/2019	19:14
m,p-Xylene	< 7.08	ug/Kg	5/29/2019	19:14
Methyl acetate	< 7.08	ug/Kg	5/29/2019	19:14
Methyl tert-butyl Ether	< 7.08	ug/Kg	5/29/2019	19:14
Methylcyclohexane	< 7.08	ug/Kg	5/29/2019	19:14
Methylene chloride	< 17.7	ug/Kg	5/29/2019	19:14
Naphthalene	< 17.7	ug/Kg	5/29/2019	19:14
n-Butylbenzene	< 7.08	ug/Kg	5/29/2019	19:14
n-Propylbenzene	< 7.08	ug/Kg	5/29/2019	19:14

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-04 (0-1')		
Lab Sample ID:	192228-04	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

o-Xylene	< 7.08	ug/Kg		5/29/2019 19:14
p-Isopropyltoluene	< 7.08	ug/Kg		5/29/2019 19:14
sec-Butylbenzene	< 7.08	ug/Kg		5/29/2019 19:14
Styrene	< 17.7	ug/Kg		5/29/2019 19:14
tert-Butylbenzene	< 7.08	ug/Kg		5/29/2019 19:14
Tetrachloroethene	< 7.08	ug/Kg		5/29/2019 19:14
Toluene	< 7.08	ug/Kg		5/29/2019 19:14
trans-1,2-Dichloroethene	< 7.08	ug/Kg		5/29/2019 19:14
trans-1,3-Dichloropropene	< 7.08	ug/Kg		5/29/2019 19:14
Trichloroethene	< 7.08	ug/Kg		5/29/2019 19:14
Trichlorofluoromethane	< 7.08	ug/Kg		5/29/2019 19:14
Vinyl chloride	< 7.08	ug/Kg		5/29/2019 19:14

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**105**	70.5 - 138		5/29/2019 19:14
4-Bromofluorobenzene	**78.5**	66.2 - 124		5/29/2019 19:14
Pentafluorobenzene	**95.1**	86 - 110		5/29/2019 19:14
Toluene-D8	**90.4**	81.6 - 113		5/29/2019 19:14

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

Data File: x61377.D

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

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.528	mg/Kg		5/23/2019

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 5/22/2019

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-05 (0-1')		
Lab Sample ID:	192228-05	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**9.31**	mg/Kg		5/22/2019 17:36
Barium	**309**	mg/Kg		5/22/2019 17:36
Beryllium	**0.434**	mg/Kg		5/22/2019 17:36
Cadmium	**2.37**	mg/Kg		5/22/2019 17:36
Chromium	**17.4**	mg/Kg		5/22/2019 17:36
Copper	**47.7**	mg/Kg		5/22/2019 17:36
Lead	**765**	mg/Kg		5/22/2019 17:36
Manganese	**500**	mg/Kg		5/22/2019 17:36
Nickel	**13.0**	mg/Kg		5/22/2019 17:36
Selenium	< 1.24	mg/Kg		5/23/2019 15:44
Silver	**1.49**	mg/Kg		5/22/2019 17:36
Zinc	**413**	mg/Kg		5/22/2019 17:36

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/21/2019
Data File: 190522B

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.968**	mg/Kg		6/3/2019 10:49

Method Reference(s): EPA 7471B
Preparation Date: 5/31/2019
Data File: Hg190603A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0357	mg/Kg		5/25/2019 10:29
PCB-1221	< 0.0357	mg/Kg		5/25/2019 10:29
PCB-1232	< 0.0357	mg/Kg		5/25/2019 10:29
PCB-1242	< 0.0357	mg/Kg		5/25/2019 10:29

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-05 (0-1')		
Lab Sample ID:	192228-05	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

PCB-1248	< 0.0357	mg/Kg		5/25/2019 10:29
PCB-1254	< 0.0357	mg/Kg		5/25/2019 10:29
PCB-1260	< 0.0357	mg/Kg		5/25/2019 10:29
PCB-1262	< 0.0357	mg/Kg		5/25/2019 10:29
PCB-1268	< 0.0357	mg/Kg		5/25/2019 10:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**36.1**	12.8 - 98.2		5/25/2019 10:29

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/24/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	**5.12**	ug/Kg		5/24/2019 15:30
4,4-DDE	**32.5**	ug/Kg		5/24/2019 15:30
4,4-DDT	**12.1**	ug/Kg		5/24/2019 15:30
Aldrin	< 3.57	ug/Kg		5/24/2019 15:30
alpha-BHC	< 3.57	ug/Kg		5/24/2019 15:30
beta-BHC	< 3.57	ug/Kg		5/24/2019 15:30
cis-Chlordane	< 3.57	ug/Kg		5/24/2019 15:30
delta-BHC	< 3.57	ug/Kg		5/24/2019 15:30
Dieldrin	**9.30**	ug/Kg		5/24/2019 15:30
Endosulfan I	< 3.57	ug/Kg		5/24/2019 15:30
Endosulfan II	< 3.57	ug/Kg		5/24/2019 15:30
Endosulfan Sulfate	< 3.57	ug/Kg		5/24/2019 15:30
Endrin	< 3.57	ug/Kg		5/24/2019 15:30
Endrin Aldehyde	< 3.57	ug/Kg		5/24/2019 15:30
Endrin Ketone	< 3.57	ug/Kg		5/24/2019 15:30
gamma-BHC (Lindane)	< 3.57	ug/Kg		5/24/2019 15:30
Heptachlor	< 3.57	ug/Kg		5/24/2019 15:30
Heptachlor Epoxide	< 3.57	ug/Kg		5/24/2019 15:30

Sample Identifier:	SB-05 (0-1')		
Lab Sample ID:	192228-05	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Methoxychlor	**5.89**	ug/Kg		P	5/24/2019 15:30
Toxaphene	< 35.7	ug/Kg			5/24/2019 15:30
trans-Chlordane	< 3.57	ug/Kg			5/24/2019 15:30

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**35.4**	20.6 - 144		5/24/2019 15:30
Tetrachloro-m-xylene (1)	**54.9**	29.4 - 105		5/24/2019 15:30

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 5/24/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 353	ug/Kg		5/24/2019 21:54
1,2,4,5-Tetrachlorobenzene	< 353	ug/Kg		5/24/2019 21:54
1,2,4-Trichlorobenzene	< 353	ug/Kg		5/24/2019 21:54
1,2-Dichlorobenzene	< 353	ug/Kg		5/24/2019 21:54
1,3-Dichlorobenzene	< 353	ug/Kg		5/24/2019 21:54
1,4-Dichlorobenzene	< 353	ug/Kg		5/24/2019 21:54
2,2-Oxybis (1-chloropropane)	< 353	ug/Kg		5/24/2019 21:54
2,3,4,6-Tetrachlorophenol	< 353	ug/Kg		5/24/2019 21:54
2,4,5-Trichlorophenol	< 353	ug/Kg		5/24/2019 21:54
2,4,6-Trichlorophenol	< 353	ug/Kg		5/24/2019 21:54
2,4-Dichlorophenol	< 353	ug/Kg		5/24/2019 21:54
2,4-Dimethylphenol	< 353	ug/Kg		5/24/2019 21:54
2,4-Dinitrophenol	< 1410	ug/Kg		5/24/2019 21:54
2,4-Dinitrotoluene	< 353	ug/Kg		5/24/2019 21:54
2,6-Dinitrotoluene	< 353	ug/Kg		5/24/2019 21:54
2-Chloronaphthalene	< 353	ug/Kg		5/24/2019 21:54
2-Chlorophenol	< 353	ug/Kg		5/24/2019 21:54
2-Methylnapthalene	< 353	ug/Kg		5/24/2019 21:54
2-Methylphenol	< 353	ug/Kg		5/24/2019 21:54

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-05 (0-1')		
Lab Sample ID:	192228-05	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

2-Nitroaniline	< 353	ug/Kg	5/24/2019 21:54
2-Nitrophenol	< 353	ug/Kg	5/24/2019 21:54
3&4-Methylphenol	< 353	ug/Kg	5/24/2019 21:54
3,3'-Dichlorobenzidine	< 353	ug/Kg	5/24/2019 21:54
3-Nitroaniline	< 353	ug/Kg	5/24/2019 21:54
4,6-Dinitro-2-methylphenol	< 472	ug/Kg	5/24/2019 21:54
4-Bromophenyl phenyl ether	< 353	ug/Kg	5/24/2019 21:54
4-Chloro-3-methylphenol	< 353	ug/Kg	5/24/2019 21:54
4-Chloroaniline	< 353	ug/Kg	5/24/2019 21:54
4-Chlorophenyl phenyl ether	< 353	ug/Kg	5/24/2019 21:54
4-Nitroaniline	< 353	ug/Kg	5/24/2019 21:54
4-Nitrophenol	< 353	ug/Kg	5/24/2019 21:54
Acenaphthene	< 353	ug/Kg	5/24/2019 21:54
Acenaphthylene	< 353	ug/Kg	5/24/2019 21:54
Acetophenone	< 353	ug/Kg	5/24/2019 21:54
Anthracene	**358**	ug/Kg	5/24/2019 21:54
Atrazine	< 353	ug/Kg	5/24/2019 21:54
Benzaldehyde	< 353	ug/Kg	5/24/2019 21:54
Benzo (a) anthracene	**1130**	ug/Kg	5/24/2019 21:54
Benzo (a) pyrene	**1160**	ug/Kg	5/24/2019 21:54
Benzo (b) fluoranthene	**1150**	ug/Kg	5/24/2019 21:54
Benzo (g,h,i) perylene	**780**	ug/Kg	5/24/2019 21:54
Benzo (k) fluoranthene	**1000**	ug/Kg	5/24/2019 21:54
Bis (2-chloroethoxy) methane	< 353	ug/Kg	5/24/2019 21:54
Bis (2-chloroethyl) ether	< 353	ug/Kg	5/24/2019 21:54
Bis (2-ethylhexyl) phthalate	< 353	ug/Kg	5/24/2019 21:54
Butylbenzylphthalate	< 353	ug/Kg	5/24/2019 21:54
Caprolactam	< 353	ug/Kg	5/24/2019 21:54
Carbazole	< 353	ug/Kg	5/24/2019 21:54
Chrysene	**1170**	ug/Kg	5/24/2019 21:54

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-05 (0-1')		
Lab Sample ID:	192228-05	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Dibenz (a,h) anthracene	< 353	ug/Kg	5/24/2019 21:54
Dibenzofuran	< 353	ug/Kg	5/24/2019 21:54
Diethyl phthalate	< 353	ug/Kg	5/24/2019 21:54
Dimethyl phthalate	< 353	ug/Kg	5/24/2019 21:54
Di-n-butyl phthalate	< 353	ug/Kg	5/24/2019 21:54
Di-n-octylphthalate	< 353	ug/Kg	5/24/2019 21:54
Fluoranthene	**2370**	ug/Kg	5/24/2019 21:54
Fluorene	< 353	ug/Kg	5/24/2019 21:54
Hexachlorobenzene	< 353	ug/Kg	5/24/2019 21:54
Hexachlorobutadiene	< 353	ug/Kg	5/24/2019 21:54
Hexachlorocyclopentadiene	< 1410	ug/Kg	5/24/2019 21:54
Hexachloroethane	< 353	ug/Kg	5/24/2019 21:54
Indeno (1,2,3-cd) pyrene	**912**	ug/Kg	5/24/2019 21:54
Isophorone	< 353	ug/Kg	5/24/2019 21:54
Naphthalene	< 353	ug/Kg	5/24/2019 21:54
Nitrobenzene	< 353	ug/Kg	5/24/2019 21:54
N-Nitroso-di-n-propylamine	< 353	ug/Kg	5/24/2019 21:54
N-Nitrosodiphenylamine	< 353	ug/Kg	5/24/2019 21:54
Pentachlorophenol	< 706	ug/Kg	5/24/2019 21:54
Phenanthrene	**1220**	ug/Kg	5/24/2019 21:54
Phenol	< 353	ug/Kg	5/24/2019 21:54
Pyrene	**1950**	ug/Kg	5/24/2019 21:54

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-05 (0-1')		
Lab Sample ID:	192228-05	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**60.5**	34.8 - 95.1		5/24/2019 21:54
2-Fluorobiphenyl	**55.7**	34.1 - 82		5/24/2019 21:54
2-Fluorophenol	**57.6**	34.7 - 81.4		5/24/2019 21:54
Nitrobenzene-d5	**58.0**	31.2 - 77.2		5/24/2019 21:54
Phenol-d5	**59.5**	36 - 82.6		5/24/2019 21:54
Terphenyl-d14	**59.7**	37.7 - 94.8		5/24/2019 21:54

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/20/2019
Data File: B37310.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.81	ug/Kg		5/29/2019 19:37
1,1,2,2-Tetrachloroethane	< 8.81	ug/Kg		5/29/2019 19:37
1,1,2-Trichloroethane	< 8.81	ug/Kg		5/29/2019 19:37
1,1-Dichloroethane	< 8.81	ug/Kg		5/29/2019 19:37
1,1-Dichloroethene	< 8.81	ug/Kg		5/29/2019 19:37
1,2,3-Trichlorobenzene	< 22.0	ug/Kg		5/29/2019 19:37
1,2,4-Trichlorobenzene	< 22.0	ug/Kg		5/29/2019 19:37
1,2,4-Trimethylbenzene	< 8.81	ug/Kg		5/29/2019 19:37
1,2-Dibromo-3-Chloropropane	< 44.0	ug/Kg		5/29/2019 19:37
1,2-Dibromoethane	< 8.81	ug/Kg		5/29/2019 19:37
1,2-Dichlorobenzene	< 8.81	ug/Kg		5/29/2019 19:37
1,2-Dichloroethane	< 8.81	ug/Kg		5/29/2019 19:37
1,2-Dichloropropane	< 8.81	ug/Kg		5/29/2019 19:37
1,3,5-Trimethylbenzene	< 8.81	ug/Kg		5/29/2019 19:37
1,3-Dichlorobenzene	< 8.81	ug/Kg		5/29/2019 19:37
1,4-Dichlorobenzene	< 8.81	ug/Kg		5/29/2019 19:37
1,4-Dioxane	< 88.1	ug/Kg		5/29/2019 19:37
2-Butanone	< 44.0	ug/Kg		5/29/2019 19:37

Sample Identifier:	SB-05 (0-1')		
Lab Sample ID:	192228-05	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

2-Hexanone	< 22.0	ug/Kg	5/29/2019	19:37
4-Methyl-2-pentanone	< 22.0	ug/Kg	5/29/2019	19:37
Acetone	< 44.0	ug/Kg	5/29/2019	19:37
Benzene	< 8.81	ug/Kg	5/29/2019	19:37
Bromochloromethane	< 22.0	ug/Kg	5/29/2019	19:37
Bromodichloromethane	< 8.81	ug/Kg	5/29/2019	19:37
Bromoform	< 22.0	ug/Kg	5/29/2019	19:37
Bromomethane	< 8.81	ug/Kg	5/29/2019	19:37
Carbon disulfide	< 8.81	ug/Kg	5/29/2019	19:37
Carbon Tetrachloride	< 8.81	ug/Kg	5/29/2019	19:37
Chlorobenzene	< 8.81	ug/Kg	5/29/2019	19:37
Chloroethane	< 8.81	ug/Kg	5/29/2019	19:37
Chloroform	< 8.81	ug/Kg	5/29/2019	19:37
Chloromethane	< 8.81	ug/Kg	5/29/2019	19:37
cis-1,2-Dichloroethene	< 8.81	ug/Kg	5/29/2019	19:37
cis-1,3-Dichloropropene	< 8.81	ug/Kg	5/29/2019	19:37
Cyclohexane	< 44.0	ug/Kg	5/29/2019	19:37
Dibromochloromethane	< 8.81	ug/Kg	5/29/2019	19:37
Dichlorodifluoromethane	< 8.81	ug/Kg	5/29/2019	19:37
Ethylbenzene	< 8.81	ug/Kg	5/29/2019	19:37
Freon 113	< 8.81	ug/Kg	5/29/2019	19:37
Isopropylbenzene	< 8.81	ug/Kg	5/29/2019	19:37
m,p-Xylene	< 8.81	ug/Kg	5/29/2019	19:37
Methyl acetate	< 8.81	ug/Kg	5/29/2019	19:37
Methyl tert-butyl Ether	< 8.81	ug/Kg	5/29/2019	19:37
Methylcyclohexane	< 8.81	ug/Kg	5/29/2019	19:37
Methylene chloride	< 22.0	ug/Kg	5/29/2019	19:37
Naphthalene	< 22.0	ug/Kg	5/29/2019	19:37
n-Butylbenzene	< 8.81	ug/Kg	5/29/2019	19:37
n-Propylbenzene	< 8.81	ug/Kg	5/29/2019	19:37

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-05 (0-1')		
Lab Sample ID:	192228-05	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

o-Xylene	< 8.81	ug/Kg	5/29/2019	19:37
p-Isopropyltoluene	< 8.81	ug/Kg	5/29/2019	19:37
sec-Butylbenzene	< 8.81	ug/Kg	5/29/2019	19:37
Styrene	< 22.0	ug/Kg	5/29/2019	19:37
tert-Butylbenzene	< 8.81	ug/Kg	5/29/2019	19:37
Tetrachloroethene	< 8.81	ug/Kg	5/29/2019	19:37
Toluene	< 8.81	ug/Kg	5/29/2019	19:37
trans-1,2-Dichloroethene	< 8.81	ug/Kg	5/29/2019	19:37
trans-1,3-Dichloropropene	< 8.81	ug/Kg	5/29/2019	19:37
Trichloroethene	< 8.81	ug/Kg	5/29/2019	19:37
Trichlorofluoromethane	< 8.81	ug/Kg	5/29/2019	19:37
Vinyl chloride	< 8.81	ug/Kg	5/29/2019	19:37

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**106**	70.5 - 138		5/29/2019	19:37
4-Bromofluorobenzene	**81.8**	66.2 - 124		5/29/2019	19:37
Pentafluorobenzene	**94.8**	86 - 110		5/29/2019	19:37
Toluene-D8	**94.6**	81.6 - 113		5/29/2019	19:37

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

Data File: x61378.D

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

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.608	mg/Kg		5/23/2019

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 5/22/2019

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-06 (0-1')		
Lab Sample ID:	192228-06	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**6.36**	mg/Kg		5/22/2019 17:39
Barium	**93.9**	mg/Kg		5/22/2019 17:39
Beryllium	**0.649**	mg/Kg		5/22/2019 17:39
Cadmium	**2.13**	mg/Kg		5/22/2019 17:39
Chromium	**20.2**	mg/Kg		5/22/2019 17:39
Copper	**21.3**	mg/Kg		5/22/2019 17:39
Lead	**104**	mg/Kg		5/22/2019 17:39
Manganese	**390**	mg/Kg		5/22/2019 17:39
Nickel	**18.6**	mg/Kg		5/22/2019 17:39
Selenium	< 1.20	mg/Kg		5/22/2019 17:39
Silver	**1.58**	mg/Kg		5/22/2019 17:39
Zinc	**125**	mg/Kg		5/22/2019 17:39

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/21/2019
Data File: 190522B

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0976**	mg/Kg		6/3/2019 09:31

Method Reference(s): EPA 7471B
Preparation Date: 5/31/2019
Data File: Hg190603A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0326	mg/Kg		5/25/2019 10:52
PCB-1221	< 0.0326	mg/Kg		5/25/2019 10:52
PCB-1232	< 0.0326	mg/Kg		5/25/2019 10:52
PCB-1242	< 0.0326	mg/Kg		5/25/2019 10:52

Sample Identifier:	SB-06 (0-1')		
Lab Sample ID:	192228-06	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

PCB-1248	< 0.0326	mg/Kg		5/25/2019 10:52
PCB-1254	< 0.0326	mg/Kg		5/25/2019 10:52
PCB-1260	< 0.0326	mg/Kg		5/25/2019 10:52
PCB-1262	< 0.0326	mg/Kg		5/25/2019 10:52
PCB-1268	< 0.0326	mg/Kg		5/25/2019 10:52

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**44.8**	12.8 - 98.2		5/25/2019 10:52

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/24/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.26	ug/Kg		5/24/2019 15:49
4,4-DDE	**3.33**	ug/Kg		5/24/2019 15:49
4,4-DDT	**3.63**	ug/Kg		5/24/2019 15:49
Aldrin	< 3.26	ug/Kg		5/24/2019 15:49
alpha-BHC	**5.86**	ug/Kg	P	5/24/2019 15:49
beta-BHC	< 3.26	ug/Kg		5/24/2019 15:49
cis-Chlordane	**4.16**	ug/Kg		5/24/2019 15:49
delta-BHC	< 3.26	ug/Kg		5/24/2019 15:49
Dieldrin	**4.42**	ug/Kg	P	5/24/2019 15:49
Endosulfan I	< 3.26	ug/Kg		5/24/2019 15:49
Endosulfan II	< 3.26	ug/Kg		5/24/2019 15:49
Endosulfan Sulfate	< 3.26	ug/Kg		5/24/2019 15:49
Endrin	< 3.26	ug/Kg		5/24/2019 15:49
Endrin Aldehyde	< 3.26	ug/Kg		5/24/2019 15:49
Endrin Ketone	< 3.26	ug/Kg		5/24/2019 15:49
gamma-BHC (Lindane)	< 3.26	ug/Kg		5/24/2019 15:49
Heptachlor	< 3.26	ug/Kg		5/24/2019 15:49
Heptachlor Epoxide	< 3.26	ug/Kg		5/24/2019 15:49

Sample Identifier:	SB-06 (0-1')		
Lab Sample ID:	192228-06	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Methoxychlor	< 3.26	ug/Kg		5/24/2019 15:49
Toxaphene	< 32.6	ug/Kg		5/24/2019 15:49
trans-Chlordane	< 3.26	ug/Kg		5/24/2019 15:49

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**74.7**	20.6 - 144		5/24/2019 15:49
Tetrachloro-m-xylene (1)	**55.6**	29.4 - 105		5/24/2019 15:49

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 5/24/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 315	ug/Kg		5/24/2019 22:24
1,2,4,5-Tetrachlorobenzene	< 315	ug/Kg		5/24/2019 22:24
1,2,4-Trichlorobenzene	< 315	ug/Kg		5/24/2019 22:24
1,2-Dichlorobenzene	< 315	ug/Kg		5/24/2019 22:24
1,3-Dichlorobenzene	< 315	ug/Kg		5/24/2019 22:24
1,4-Dichlorobenzene	< 315	ug/Kg		5/24/2019 22:24
2,2-Oxybis (1-chloropropane)	< 315	ug/Kg		5/24/2019 22:24
2,3,4,6-Tetrachlorophenol	< 315	ug/Kg		5/24/2019 22:24
2,4,5-Trichlorophenol	< 315	ug/Kg		5/24/2019 22:24
2,4,6-Trichlorophenol	< 315	ug/Kg		5/24/2019 22:24
2,4-Dichlorophenol	< 315	ug/Kg		5/24/2019 22:24
2,4-Dimethylphenol	< 315	ug/Kg		5/24/2019 22:24
2,4-Dinitrophenol	< 1260	ug/Kg		5/24/2019 22:24
2,4-Dinitrotoluene	< 315	ug/Kg		5/24/2019 22:24
2,6-Dinitrotoluene	< 315	ug/Kg		5/24/2019 22:24
2-Chloronaphthalene	< 315	ug/Kg		5/24/2019 22:24
2-Chlorophenol	< 315	ug/Kg		5/24/2019 22:24
2-Methylnapthalene	< 315	ug/Kg		5/24/2019 22:24
2-Methylphenol	< 315	ug/Kg		5/24/2019 22:24

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-06 (0-1')		
Lab Sample ID:	192228-06	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

2-Nitroaniline	< 315	ug/Kg	5/24/2019 22:24
2-Nitrophenol	< 315	ug/Kg	5/24/2019 22:24
3&4-Methylphenol	< 315	ug/Kg	5/24/2019 22:24
3,3'-Dichlorobenzidine	< 315	ug/Kg	5/24/2019 22:24
3-Nitroaniline	< 315	ug/Kg	5/24/2019 22:24
4,6-Dinitro-2-methylphenol	< 422	ug/Kg	5/24/2019 22:24
4-Bromophenyl phenyl ether	< 315	ug/Kg	5/24/2019 22:24
4-Chloro-3-methylphenol	< 315	ug/Kg	5/24/2019 22:24
4-Chloroaniline	< 315	ug/Kg	5/24/2019 22:24
4-Chlorophenyl phenyl ether	< 315	ug/Kg	5/24/2019 22:24
4-Nitroaniline	< 315	ug/Kg	5/24/2019 22:24
4-Nitrophenol	< 315	ug/Kg	5/24/2019 22:24
Acenaphthene	< 315	ug/Kg	5/24/2019 22:24
Acenaphthylene	< 315	ug/Kg	5/24/2019 22:24
Acetophenone	< 315	ug/Kg	5/24/2019 22:24
Anthracene	< 315	ug/Kg	5/24/2019 22:24
Atrazine	< 315	ug/Kg	5/24/2019 22:24
Benzaldehyde	< 315	ug/Kg	5/24/2019 22:24
Benzo (a) anthracene	**419**	ug/Kg	5/24/2019 22:24
Benzo (a) pyrene	**475**	ug/Kg	5/24/2019 22:24
Benzo (b) fluoranthene	**541**	ug/Kg	5/24/2019 22:24
Benzo (g,h,i) perylene	**392**	ug/Kg	5/24/2019 22:24
Benzo (k) fluoranthene	**398**	ug/Kg	5/24/2019 22:24
Bis (2-chloroethoxy) methane	< 315	ug/Kg	5/24/2019 22:24
Bis (2-chloroethyl) ether	< 315	ug/Kg	5/24/2019 22:24
Bis (2-ethylhexyl) phthalate	< 315	ug/Kg	5/24/2019 22:24
Butylbenzylphthalate	< 315	ug/Kg	5/24/2019 22:24
Caprolactam	< 315	ug/Kg	5/24/2019 22:24
Carbazole	< 315	ug/Kg	5/24/2019 22:24
Chrysene	**505**	ug/Kg	5/24/2019 22:24

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-06 (0-1')		
Lab Sample ID:	192228-06	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Dibenz (a,h) anthracene	< 315	ug/Kg	5/24/2019 22:24
Dibenzofuran	< 315	ug/Kg	5/24/2019 22:24
Diethyl phthalate	< 315	ug/Kg	5/24/2019 22:24
Dimethyl phthalate	< 315	ug/Kg	5/24/2019 22:24
Di-n-butyl phthalate	< 315	ug/Kg	5/24/2019 22:24
Di-n-octylphthalate	< 315	ug/Kg	5/24/2019 22:24
Fluoranthene	**890**	ug/Kg	5/24/2019 22:24
Fluorene	< 315	ug/Kg	5/24/2019 22:24
Hexachlorobenzene	< 315	ug/Kg	5/24/2019 22:24
Hexachlorobutadiene	< 315	ug/Kg	5/24/2019 22:24
Hexachlorocyclopentadiene	< 1260	ug/Kg	5/24/2019 22:24
Hexachloroethane	< 315	ug/Kg	5/24/2019 22:24
Indeno (1,2,3-cd) pyrene	**378**	ug/Kg	5/24/2019 22:24
Isophorone	< 315	ug/Kg	5/24/2019 22:24
Naphthalene	< 315	ug/Kg	5/24/2019 22:24
Nitrobenzene	< 315	ug/Kg	5/24/2019 22:24
N-Nitroso-di-n-propylamine	< 315	ug/Kg	5/24/2019 22:24
N-Nitrosodiphenylamine	< 315	ug/Kg	5/24/2019 22:24
Pentachlorophenol	< 631	ug/Kg	5/24/2019 22:24
Phenanthrene	**504**	ug/Kg	5/24/2019 22:24
Phenol	< 315	ug/Kg	5/24/2019 22:24
Pyrene	**728**	ug/Kg	5/24/2019 22:24

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier: SB-06 (0-1')
Lab Sample ID: 192228-06 **Date Sampled:** 5/16/2019
Matrix: Soil **Date Received:** 5/17/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**66.8**	34.8 - 95.1		5/24/2019 22:24
2-Fluorobiphenyl	**62.5**	34.1 - 82		5/24/2019 22:24
2-Fluorophenol	**68.1**	34.7 - 81.4		5/24/2019 22:24
Nitrobenzene-d5	**69.5**	31.2 - 77.2		5/24/2019 22:24
Phenol-d5	**70.5**	36 - 82.6		5/24/2019 22:24
Terphenyl-d14	**67.7**	37.7 - 94.8		5/24/2019 22:24

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/20/2019
Data File: B37311.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.14	ug/Kg		5/29/2019 20:00
1,1,2,2-Tetrachloroethane	< 8.14	ug/Kg		5/29/2019 20:00
1,1,2-Trichloroethane	< 8.14	ug/Kg		5/29/2019 20:00
1,1-Dichloroethane	< 8.14	ug/Kg		5/29/2019 20:00
1,1-Dichloroethene	< 8.14	ug/Kg		5/29/2019 20:00
1,2,3-Trichlorobenzene	< 20.4	ug/Kg		5/29/2019 20:00
1,2,4-Trichlorobenzene	< 20.4	ug/Kg		5/29/2019 20:00
1,2,4-Trimethylbenzene	< 8.14	ug/Kg		5/29/2019 20:00
1,2-Dibromo-3-Chloropropane	< 40.7	ug/Kg		5/29/2019 20:00
1,2-Dibromoethane	< 8.14	ug/Kg		5/29/2019 20:00
1,2-Dichlorobenzene	< 8.14	ug/Kg		5/29/2019 20:00
1,2-Dichloroethane	< 8.14	ug/Kg		5/29/2019 20:00
1,2-Dichloropropane	< 8.14	ug/Kg		5/29/2019 20:00
1,3,5-Trimethylbenzene	< 8.14	ug/Kg		5/29/2019 20:00
1,3-Dichlorobenzene	< 8.14	ug/Kg		5/29/2019 20:00
1,4-Dichlorobenzene	< 8.14	ug/Kg		5/29/2019 20:00
1,4-Dioxane	< 81.4	ug/Kg		5/29/2019 20:00
2-Butanone	< 40.7	ug/Kg		5/29/2019 20:00

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-06 (0-1')		
Lab Sample ID:	192228-06	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

2-Hexanone	< 20.4	ug/Kg	5/29/2019	20:00
4-Methyl-2-pentanone	< 20.4	ug/Kg	5/29/2019	20:00
Acetone	< 40.7	ug/Kg	5/29/2019	20:00
Benzene	< 8.14	ug/Kg	5/29/2019	20:00
Bromochloromethane	< 20.4	ug/Kg	5/29/2019	20:00
Bromodichloromethane	< 8.14	ug/Kg	5/29/2019	20:00
Bromoform	< 20.4	ug/Kg	5/29/2019	20:00
Bromomethane	< 8.14	ug/Kg	5/29/2019	20:00
Carbon disulfide	< 8.14	ug/Kg	5/29/2019	20:00
Carbon Tetrachloride	< 8.14	ug/Kg	5/29/2019	20:00
Chlorobenzene	< 8.14	ug/Kg	5/29/2019	20:00
Chloroethane	< 8.14	ug/Kg	5/29/2019	20:00
Chloroform	< 8.14	ug/Kg	5/29/2019	20:00
Chloromethane	< 8.14	ug/Kg	5/29/2019	20:00
cis-1,2-Dichloroethene	< 8.14	ug/Kg	5/29/2019	20:00
cis-1,3-Dichloropropene	< 8.14	ug/Kg	5/29/2019	20:00
Cyclohexane	< 40.7	ug/Kg	5/29/2019	20:00
Dibromochloromethane	< 8.14	ug/Kg	5/29/2019	20:00
Dichlorodifluoromethane	< 8.14	ug/Kg	5/29/2019	20:00
Ethylbenzene	< 8.14	ug/Kg	5/29/2019	20:00
Freon 113	< 8.14	ug/Kg	5/29/2019	20:00
Isopropylbenzene	< 8.14	ug/Kg	5/29/2019	20:00
m,p-Xylene	< 8.14	ug/Kg	5/29/2019	20:00
Methyl acetate	< 8.14	ug/Kg	5/29/2019	20:00
Methyl tert-butyl Ether	< 8.14	ug/Kg	5/29/2019	20:00
Methylcyclohexane	< 8.14	ug/Kg	5/29/2019	20:00
Methylene chloride	< 20.4	ug/Kg	5/29/2019	20:00
Naphthalene	< 20.4	ug/Kg	5/29/2019	20:00
n-Butylbenzene	< 8.14	ug/Kg	5/29/2019	20:00
n-Propylbenzene	< 8.14	ug/Kg	5/29/2019	20:00

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-06 (0-1')		
Lab Sample ID:	192228-06	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

o-Xylene	< 8.14	ug/Kg		5/29/2019 20:00
p-Isopropyltoluene	< 8.14	ug/Kg		5/29/2019 20:00
sec-Butylbenzene	< 8.14	ug/Kg		5/29/2019 20:00
Styrene	< 20.4	ug/Kg		5/29/2019 20:00
tert-Butylbenzene	< 8.14	ug/Kg		5/29/2019 20:00
Tetrachloroethene	< 8.14	ug/Kg		5/29/2019 20:00
Toluene	< 8.14	ug/Kg		5/29/2019 20:00
trans-1,2-Dichloroethene	< 8.14	ug/Kg		5/29/2019 20:00
trans-1,3-Dichloropropene	< 8.14	ug/Kg		5/29/2019 20:00
Trichloroethene	< 8.14	ug/Kg		5/29/2019 20:00
Trichlorofluoromethane	< 8.14	ug/Kg		5/29/2019 20:00
Vinyl chloride	< 8.14	ug/Kg		5/29/2019 20:00

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**99.1**	70.5 - 138		5/29/2019 20:00
4-Bromofluorobenzene	**88.8**	66.2 - 124		5/29/2019 20:00
Pentafluorobenzene	**94.4**	86 - 110		5/29/2019 20:00
Toluene-D8	**95.1**	81.6 - 113		5/29/2019 20:00

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

Data File: x61379.D

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

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.511	mg/Kg		5/23/2019

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 5/22/2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-07 (0-1')		
Lab Sample ID:	192228-07	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**3.37**	mg/Kg		5/22/2019 17:44
Barium	**122**	mg/Kg		5/22/2019 17:44
Beryllium	**0.611**	mg/Kg		5/22/2019 17:44
Cadmium	**1.84**	mg/Kg		5/22/2019 17:44
Chromium	**20.9**	mg/Kg		5/22/2019 17:44
Copper	**24.4**	mg/Kg		5/22/2019 17:44
Lead	**22.3**	mg/Kg	D	5/22/2019 17:44
Manganese	**281**	mg/Kg	M	5/22/2019 17:44
Nickel	**18.5**	mg/Kg		5/22/2019 17:44
Selenium	< 1.14	mg/Kg	M	5/22/2019 17:44
Silver	**1.32**	mg/Kg		5/22/2019 17:44
Zinc	**88.6**	mg/Kg		5/22/2019 17:44

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 5/21/2019
Data File: 190522B

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0909**	mg/Kg	M	6/3/2019 09:37

Method Reference(s): EPA 7471B
Preparation Date: 5/31/2019
Data File: Hg190603A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0350	mg/Kg		5/25/2019 11:15
PCB-1221	< 0.0350	mg/Kg		5/25/2019 11:15
PCB-1232	< 0.0350	mg/Kg		5/25/2019 11:15
PCB-1242	< 0.0350	mg/Kg		5/25/2019 11:15

Sample Identifier:	SB-07 (0-1')		
Lab Sample ID:	192228-07	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

PCB-1248	< 0.0350	mg/Kg		5/25/2019 11:15
PCB-1254	< 0.0350	mg/Kg		5/25/2019 11:15
PCB-1260	< 0.0350	mg/Kg		5/25/2019 11:15
PCB-1262	< 0.0350	mg/Kg		5/25/2019 11:15
PCB-1268	< 0.0350	mg/Kg		5/25/2019 11:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**32.4**	12.8 - 98.2		5/25/2019 11:15

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 5/24/2019

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.50	ug/Kg		5/24/2019 16:08
4,4-DDE	< 3.50	ug/Kg		5/24/2019 16:08
4,4-DDT	**4.22**	ug/Kg	P	5/24/2019 16:08
Aldrin	< 3.50	ug/Kg		5/24/2019 16:08
alpha-BHC	< 3.50	ug/Kg		5/24/2019 16:08
beta-BHC	< 3.50	ug/Kg		5/24/2019 16:08
cis-Chlordane	< 3.50	ug/Kg		5/24/2019 16:08
delta-BHC	< 3.50	ug/Kg		5/24/2019 16:08
Dieldrin	< 3.50	ug/Kg		5/24/2019 16:08
Endosulfan I	< 3.50	ug/Kg		5/24/2019 16:08
Endosulfan II	< 3.50	ug/Kg		5/24/2019 16:08
Endosulfan Sulfate	**3.80**	ug/Kg		5/24/2019 16:08
Endrin	< 3.50	ug/Kg		5/24/2019 16:08
Endrin Aldehyde	< 3.50	ug/Kg		5/24/2019 16:08
Endrin Ketone	**4.97**	ug/Kg		5/24/2019 16:08
gamma-BHC (Lindane)	< 3.50	ug/Kg		5/24/2019 16:08
Heptachlor	< 3.50	ug/Kg		5/24/2019 16:08
Heptachlor Epoxide	< 3.50	ug/Kg		5/24/2019 16:08

Sample Identifier:	SB-07 (0-1')		
Lab Sample ID:	192228-07	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Methoxychlor	**13.1**	ug/Kg		P	5/24/2019 16:08
Toxaphene	< 35.0	ug/Kg			5/24/2019 16:08
trans-Chlordane	< 3.50	ug/Kg			5/24/2019 16:08

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
Decachlorobiphenyl (1)	**42.3**	20.6 - 144		5/24/2019 16:08
Tetrachloro-m-xylene (1)	**35.3**	29.4 - 105		5/24/2019 16:08

Method Reference(s): EPA 8081B
EPA 3546

Preparation Date: 5/24/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	**Result**	**Units**	**Qualifier**	**Date Analyzed**
1,1-Biphenyl	< 345	ug/Kg		5/24/2019 22:53
1,2,4,5-Tetrachlorobenzene	< 345	ug/Kg		5/24/2019 22:53
1,2,4-Trichlorobenzene	< 345	ug/Kg		5/24/2019 22:53
1,2-Dichlorobenzene	< 345	ug/Kg		5/24/2019 22:53
1,3-Dichlorobenzene	< 345	ug/Kg		5/24/2019 22:53
1,4-Dichlorobenzene	< 345	ug/Kg		5/24/2019 22:53
2,2-Oxybis (1-chloropropane)	< 345	ug/Kg		5/24/2019 22:53
2,3,4,6-Tetrachlorophenol	< 345	ug/Kg		5/24/2019 22:53
2,4,5-Trichlorophenol	< 345	ug/Kg		5/24/2019 22:53
2,4,6-Trichlorophenol	< 345	ug/Kg		5/24/2019 22:53
2,4-Dichlorophenol	< 345	ug/Kg		5/24/2019 22:53
2,4-Dimethylphenol	< 345	ug/Kg		5/24/2019 22:53
2,4-Dinitrophenol	< 1380	ug/Kg		5/24/2019 22:53
2,4-Dinitrotoluene	< 345	ug/Kg		5/24/2019 22:53
2,6-Dinitrotoluene	< 345	ug/Kg		5/24/2019 22:53
2-Chloronaphthalene	< 345	ug/Kg		5/24/2019 22:53
2-Chlorophenol	< 345	ug/Kg		5/24/2019 22:53
2-Methylnapthalene	< 345	ug/Kg		5/24/2019 22:53
2-Methylphenol	< 345	ug/Kg		5/24/2019 22:53

Sample Identifier:	SB-07 (0-1')		
Lab Sample ID:	192228-07	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

2-Nitroaniline	< 345	ug/Kg	5/24/2019 22:53
2-Nitrophenol	< 345	ug/Kg	5/24/2019 22:53
3&4-Methylphenol	< 345	ug/Kg	5/24/2019 22:53
3,3'-Dichlorobenzidine	< 345	ug/Kg	5/24/2019 22:53
3-Nitroaniline	< 345	ug/Kg	5/24/2019 22:53
4,6-Dinitro-2-methylphenol	< 461	ug/Kg	5/24/2019 22:53
4-Bromophenyl phenyl ether	< 345	ug/Kg	5/24/2019 22:53
4-Chloro-3-methylphenol	< 345	ug/Kg	5/24/2019 22:53
4-Chloroaniline	< 345	ug/Kg	5/24/2019 22:53
4-Chlorophenyl phenyl ether	< 345	ug/Kg	5/24/2019 22:53
4-Nitroaniline	< 345	ug/Kg	5/24/2019 22:53
4-Nitrophenol	< 345	ug/Kg	5/24/2019 22:53
Acenaphthene	**456**	ug/Kg	5/24/2019 22:53
Acenaphthylene	< 345	ug/Kg	5/24/2019 22:53
Acetophenone	< 345	ug/Kg	5/24/2019 22:53
Anthracene	**729**	ug/Kg	5/24/2019 22:53
Atrazine	< 345	ug/Kg	5/24/2019 22:53
Benzaldehyde	< 345	ug/Kg	5/24/2019 22:53
Benzo (a) anthracene	**1390**	ug/Kg	5/24/2019 22:53
Benzo (a) pyrene	**1110**	ug/Kg	5/24/2019 22:53
Benzo (b) fluoranthene	**1080**	ug/Kg	5/24/2019 22:53
Benzo (g,h,i) perylene	**622**	ug/Kg	5/24/2019 22:53
Benzo (k) fluoranthene	**1010**	ug/Kg	5/24/2019 22:53
Bis (2-chloroethoxy) methane	< 345	ug/Kg	5/24/2019 22:53
Bis (2-chloroethyl) ether	< 345	ug/Kg	5/24/2019 22:53
Bis (2-ethylhexyl) phthalate	< 345	ug/Kg	5/24/2019 22:53
Butylbenzylphthalate	< 345	ug/Kg	5/24/2019 22:53
Caprolactam	< 345	ug/Kg	5/24/2019 22:53
Carbazole	**460**	ug/Kg	5/24/2019 22:53
Chrysene	**1230**	ug/Kg	5/24/2019 22:53

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-07 (0-1')		
Lab Sample ID:	192228-07	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Dibenz (a,h) anthracene	< 345	ug/Kg	5/24/2019	22:53
Dibenzofuran	< 345	ug/Kg	5/24/2019	22:53
Diethyl phthalate	< 345	ug/Kg	5/24/2019	22:53
Dimethyl phthalate	< 345	ug/Kg	5/24/2019	22:53
Di-n-butyl phthalate	< 345	ug/Kg	5/24/2019	22:53
Di-n-octylphthalate	< 345	ug/Kg	5/24/2019	22:53
Fluoranthene	**3040**	ug/Kg	5/24/2019	22:53
Fluorene	**410**	ug/Kg	5/24/2019	22:53
Hexachlorobenzene	< 345	ug/Kg	5/24/2019	22:53
Hexachlorobutadiene	< 345	ug/Kg	5/24/2019	22:53
Hexachlorocyclopentadiene	< 1380	ug/Kg	5/24/2019	22:53
Hexachloroethane	< 345	ug/Kg	5/24/2019	22:53
Indeno (1,2,3-cd) pyrene	**733**	ug/Kg	5/24/2019	22:53
Isophorone	< 345	ug/Kg	5/24/2019	22:53
Naphthalene	< 345	ug/Kg	5/24/2019	22:53
Nitrobenzene	< 345	ug/Kg	5/24/2019	22:53
N-Nitroso-di-n-propylamine	< 345	ug/Kg	5/24/2019	22:53
N-Nitrosodiphenylamine	< 345	ug/Kg	5/24/2019	22:53
Pentachlorophenol	< 689	ug/Kg	5/24/2019	22:53
Phenanthrene	**2830**	ug/Kg	5/24/2019	22:53
Phenol	< 345	ug/Kg	5/24/2019	22:53
Pyrene	**2370**	ug/Kg	5/24/2019	22:53

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-07 (0-1')		
Lab Sample ID:	192228-07	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**60.3**	34.8 - 95.1		5/24/2019 22:53
2-Fluorobiphenyl	**55.6**	34.1 - 82		5/24/2019 22:53
2-Fluorophenol	**58.8**	34.7 - 81.4		5/24/2019 22:53
Nitrobenzene-d5	**61.6**	31.2 - 77.2		5/24/2019 22:53
Phenol-d5	**60.1**	36 - 82.6		5/24/2019 22:53
Terphenyl-d14	**60.1**	37.7 - 94.8		5/24/2019 22:53

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 5/20/2019
Data File: B37312.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.33	ug/Kg		5/29/2019 20:23
1,1,2,2-Tetrachloroethane	< 8.33	ug/Kg		5/29/2019 20:23
1,1,2-Trichloroethane	< 8.33	ug/Kg		5/29/2019 20:23
1,1-Dichloroethane	< 8.33	ug/Kg		5/29/2019 20:23
1,1-Dichloroethene	< 8.33	ug/Kg		5/29/2019 20:23
1,2,3-Trichlorobenzene	< 20.8	ug/Kg		5/29/2019 20:23
1,2,4-Trichlorobenzene	< 20.8	ug/Kg		5/29/2019 20:23
1,2,4-Trimethylbenzene	< 8.33	ug/Kg		5/29/2019 20:23
1,2-Dibromo-3-Chloropropane	< 41.6	ug/Kg		5/29/2019 20:23
1,2-Dibromoethane	< 8.33	ug/Kg		5/29/2019 20:23
1,2-Dichlorobenzene	< 8.33	ug/Kg		5/29/2019 20:23
1,2-Dichloroethane	< 8.33	ug/Kg		5/29/2019 20:23
1,2-Dichloropropane	< 8.33	ug/Kg		5/29/2019 20:23
1,3,5-Trimethylbenzene	< 8.33	ug/Kg		5/29/2019 20:23
1,3-Dichlorobenzene	< 8.33	ug/Kg		5/29/2019 20:23
1,4-Dichlorobenzene	< 8.33	ug/Kg		5/29/2019 20:23
1,4-Dioxane	< 83.3	ug/Kg		5/29/2019 20:23
2-Butanone	< 41.6	ug/Kg		5/29/2019 20:23

Sample Identifier:	SB-07 (0-1')		
Lab Sample ID:	192228-07	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

2-Hexanone	< 20.8	ug/Kg	5/29/2019	20:23
4-Methyl-2-pentanone	< 20.8	ug/Kg	5/29/2019	20:23
Acetone	< 41.6	ug/Kg	5/29/2019	20:23
Benzene	< 8.33	ug/Kg	5/29/2019	20:23
Bromochloromethane	< 20.8	ug/Kg	5/29/2019	20:23
Bromodichloromethane	< 8.33	ug/Kg	5/29/2019	20:23
Bromoform	< 20.8	ug/Kg	5/29/2019	20:23
Bromomethane	< 8.33	ug/Kg	5/29/2019	20:23
Carbon disulfide	< 8.33	ug/Kg	5/29/2019	20:23
Carbon Tetrachloride	< 8.33	ug/Kg	5/29/2019	20:23
Chlorobenzene	< 8.33	ug/Kg	5/29/2019	20:23
Chloroethane	< 8.33	ug/Kg	5/29/2019	20:23
Chloroform	< 8.33	ug/Kg	5/29/2019	20:23
Chloromethane	< 8.33	ug/Kg	5/29/2019	20:23
cis-1,2-Dichloroethene	< 8.33	ug/Kg	5/29/2019	20:23
cis-1,3-Dichloropropene	< 8.33	ug/Kg	5/29/2019	20:23
Cyclohexane	< 41.6	ug/Kg	5/29/2019	20:23
Dibromochloromethane	< 8.33	ug/Kg	5/29/2019	20:23
Dichlorodifluoromethane	< 8.33	ug/Kg	5/29/2019	20:23
Ethylbenzene	< 8.33	ug/Kg	5/29/2019	20:23
Freon 113	< 8.33	ug/Kg	5/29/2019	20:23
Isopropylbenzene	< 8.33	ug/Kg	5/29/2019	20:23
m,p-Xylene	< 8.33	ug/Kg	5/29/2019	20:23
Methyl acetate	< 8.33	ug/Kg	5/29/2019	20:23
Methyl tert-butyl Ether	< 8.33	ug/Kg	5/29/2019	20:23
Methylcyclohexane	< 8.33	ug/Kg	5/29/2019	20:23
Methylene chloride	< 20.8	ug/Kg	5/29/2019	20:23
Naphthalene	< 20.8	ug/Kg	5/29/2019	20:23
n-Butylbenzene	< 8.33	ug/Kg	5/29/2019	20:23
n-Propylbenzene	< 8.33	ug/Kg	5/29/2019	20:23

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-07 (0-1')		
Lab Sample ID:	192228-07	**Date Sampled:**	5/16/2019
Matrix:	Soil	**Date Received:**	5/17/2019

o-Xylene	< 8.33	ug/Kg	5/29/2019	20:23
p-Isopropyltoluene	< 8.33	ug/Kg	5/29/2019	20:23
sec-Butylbenzene	< 8.33	ug/Kg	5/29/2019	20:23
Styrene	< 20.8	ug/Kg	5/29/2019	20:23
tert-Butylbenzene	< 8.33	ug/Kg	5/29/2019	20:23
Tetrachloroethene	< 8.33	ug/Kg	5/29/2019	20:23
Toluene	< 8.33	ug/Kg	5/29/2019	20:23
trans-1,2-Dichloroethene	< 8.33	ug/Kg	5/29/2019	20:23
trans-1,3-Dichloropropene	< 8.33	ug/Kg	5/29/2019	20:23
Trichloroethene	**8.93**	ug/Kg	5/29/2019	20:23
Trichlorofluoromethane	< 8.33	ug/Kg	5/29/2019	20:23
Vinyl chloride	< 8.33	ug/Kg	5/29/2019	20:23

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**109**	70.5 - 138		5/29/2019	20:23
4-Bromofluorobenzene	**70.9**	66.2 - 124		5/29/2019	20:23
Pentafluorobenzene	**98.3**	86 - 110		5/29/2019	20:23
Toluene-D8	**91.9**	81.6 - 113		5/29/2019	20:23

Internal standard outliers indicate probable matrix interference

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

Data File: x61380.D

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

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.539	mg/Kg		5/23/2019

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 5/22/2019

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-07GW		
Lab Sample ID:	192228-08	**Date Sampled:**	5/16/2019
Matrix:	Groundwater	**Date Received:**	5/17/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	**80.2**	ug/L		5/29/2019 21:31
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/29/2019 21:31
1,1,2-Trichloroethane	< 2.00	ug/L		5/29/2019 21:31
1,1-Dichloroethane	**9.58**	ug/L		5/29/2019 21:31
1,1-Dichloroethene	**25.6**	ug/L		5/29/2019 21:31
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/29/2019 21:31
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/29/2019 21:31
1,2,4-Trimethylbenzene	< 2.00	ug/L		5/29/2019 21:31
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/29/2019 21:31
1,2-Dibromoethane	< 2.00	ug/L		5/29/2019 21:31
1,2-Dichlorobenzene	< 2.00	ug/L		5/29/2019 21:31
1,2-Dichloroethane	< 2.00	ug/L		5/29/2019 21:31
1,2-Dichloropropane	< 2.00	ug/L		5/29/2019 21:31
1,3,5-Trimethylbenzene	< 2.00	ug/L		5/29/2019 21:31
1,3-Dichlorobenzene	< 2.00	ug/L		5/29/2019 21:31
1,4-Dichlorobenzene	< 2.00	ug/L		5/29/2019 21:31
1,4-Dioxane	< 20.0	ug/L		5/29/2019 21:31
2-Butanone	< 10.0	ug/L		5/29/2019 21:31
2-Hexanone	< 5.00	ug/L		5/29/2019 21:31
4-Methyl-2-pentanone	< 5.00	ug/L		5/29/2019 21:31
Acetone	**17.2**	ug/L		5/29/2019 21:31
Benzene	< 1.00	ug/L		5/29/2019 21:31
Bromochloromethane	< 5.00	ug/L		5/29/2019 21:31
Bromodichloromethane	< 2.00	ug/L		5/29/2019 21:31
Bromoform	< 5.00	ug/L		5/29/2019 21:31
Bromomethane	< 2.00	ug/L		5/29/2019 21:31
Carbon disulfide	< 2.00	ug/L		5/29/2019 21:31
Carbon Tetrachloride	< 2.00	ug/L		5/29/2019 21:31

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-07GW		
Lab Sample ID:	192228-08	**Date Sampled:**	5/16/2019
Matrix:	Groundwater	**Date Received:**	5/17/2019

Chlorobenzene	< 2.00	ug/L	5/29/2019	21:31
Chloroethane	< 2.00	ug/L	5/29/2019	21:31
Chloroform	< 2.00	ug/L	5/29/2019	21:31
Chloromethane	< 2.00	ug/L	5/29/2019	21:31
cis-1,2-Dichloroethene	**13.4**	ug/L	5/29/2019	21:31
cis-1,3-Dichloropropene	< 2.00	ug/L	5/29/2019	21:31
Cyclohexane	< 10.0	ug/L	5/29/2019	21:31
Dibromochloromethane	< 2.00	ug/L	5/29/2019	21:31
Dichlorodifluoromethane	< 2.00	ug/L	5/29/2019	21:31
Ethylbenzene	< 2.00	ug/L	5/29/2019	21:31
Freon 113	< 2.00	ug/L	5/29/2019	21:31
Isopropylbenzene	< 2.00	ug/L	5/29/2019	21:31
m,p-Xylene	< 2.00	ug/L	5/29/2019	21:31
Methyl acetate	< 2.00	ug/L	5/29/2019	21:31
Methyl tert-butyl Ether	< 2.00	ug/L	5/29/2019	21:31
Methylcyclohexane	< 2.00	ug/L	5/29/2019	21:31
Methylene chloride	< 5.00	ug/L	5/29/2019	21:31
Naphthalene	< 5.00	ug/L	5/29/2019	21:31
n-Butylbenzene	< 2.00	ug/L	5/29/2019	21:31
n-Propylbenzene	< 2.00	ug/L	5/29/2019	21:31
o-Xylene	< 2.00	ug/L	5/29/2019	21:31
p-Isopropyltoluene	< 2.00	ug/L	5/29/2019	21:31
sec-Butylbenzene	< 2.00	ug/L	5/29/2019	21:31
Styrene	< 5.00	ug/L	5/29/2019	21:31
tert-Butylbenzene	< 2.00	ug/L	5/29/2019	21:31
Tetrachloroethene	< 2.00	ug/L	5/29/2019	21:31
Toluene	< 2.00	ug/L	5/29/2019	21:31
trans-1,2-Dichloroethene	< 2.00	ug/L	5/29/2019	21:31
trans-1,3-Dichloropropene	< 2.00	ug/L	5/29/2019	21:31
Trichloroethene	**98.8**	ug/L	5/29/2019	21:31

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192228

Client: **BE3**

Project Reference: 1100 Niagara Street

Sample Identifier:	SB-07GW		
Lab Sample ID:	192228-08	**Date Sampled:**	5/16/2019
Matrix:	Groundwater	**Date Received:**	5/17/2019

Trichlorofluoromethane	< 2.00	ug/L			5/29/2019	21:31
Vinyl chloride	< 2.00	ug/L			5/29/2019	21:31

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**103**	71.4 - 133		5/29/2019	21:31
4-Bromofluorobenzene	**89.2**	61.7 - 126		5/29/2019	21:31
Pentafluorobenzene	**92.7**	87.4 - 109		5/29/2019	21:31
Toluene-D8	**96.1**	82.3 - 112		5/29/2019	21:31

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

Data File: x61383.D

Analytical Report Appendix

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

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

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

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

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

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

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

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

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

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

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

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

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

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

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

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

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

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

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

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

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

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC

REPORT TO:		INVOICE TO:		
CLIENT:	BE3 / PANAMERICAN	CLIENT:		LAB PROJECT ID: 192228
ADDRESS:	1270 NIAGARA ST	ADDRESS:		
CITY:	Buffalo STATE: NY ZIP 14213	CITY: STATE: ZIP:		Quotation #:
PHONE:	716 249 6880	PHONE:		Email:
ATTN:	JASON BRYDGES	ATTN:		

PROJECT REFERENCE: 1100 NIAGARA STREET

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	Part 375 Volatiles	Part 375 SVOC	Part 375 Metals	Part 375 Pest	Part 375 PCB	Ti Cyanide	REMARKS	PARADIGM LAB SAMPLE NUMBER
5/16/19	0815		✓	SB-01 (0-1')	SO	2	✓	✓	X	X	X	X		01
	0934		✓	SB-02 (0-1')	SO	2	✓	✓	X	X	X	X		02
	1025		✓	SB-03 (0-1')	SO	2	✓	✓	X	X	X	X		03
	1110		✓	SB-04 (0-1')	SO	2	✓	✓	X	X	X	X		04
	1135		✓	SB-05 (0-1')	SO	2	✓	✓	X	X	X	X		05
	1346		✓	SB-06 (0-1')	SO	2	✓	✓	X	X	X	X		06
	~~1450~~ 1438		✓	SB-07 (0-1')	SO	2	✓	✓	X	X	X	X		07
	1450		✓	SB-07 (8-9')	SO	2	✓	✓	X	X	X	X	← Hold until advised to Analyze ~~Sample~~	
	1510		✓	SB-07 GW	WG	2	✓							08

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 :	

Sampled By: John A Boyd — Date/Time: 5/16/19 1550

Relinquished By: [signature] — Date/Time: 5/16/19

Received By: [signature] — Date/Time: 5/16/19 5:00

Received @ Lab By: [signature] — Date/Time: 5/17/19 1532

4°C iced 5/17/19 15:11

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: BE3 **Completed by:** Molly Reid

Lab Project ID: 192226 **Date:** 5/17/19

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	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		met
Comments	4°C iced		
Compliant Sample Quantity/Type	X		
Comments			

BORING LOGS

Geoprobe
Bore Hole Log

BE3 CORP PANAMERICAN
ENVIRONMENT • ENGINEERING • ENERGY
1270 Niagara Street
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:		1100 Niagara Street	
Client:	1100 Niagara	Location:	1100 Niagara Street, Buffalo, NY See Report Figures
Contractor:	Natures Way	Lat/Long:	
Date Started:	5/16/2019	Equipment Model:	Geoprobe
Date Completed:	5/16/2019	Geologist/Technician:	John Boyd
Operator:	Dale	Ground Water:	
Bore Hole Number:	**SB-1**	Depth to Bedrock:	15.4 feet

Depth (Ft)	Sample NO	Sample TYPE	REC	PID (ppm)	Description
0				0.0	0-0.9 - dark brown silt with fine gravel + F-M sand - fill
1					
2					
3					
4					
5					4-4.9 ft - red brown clay; slightly soft
6					
7					
8					4.9-8 - red-brown silty clay with trace F-M sand & fine gravel- med stiff
9					
10					
11					
12					8-12 Same as above - stiff
13					
14					12- 14.4 - Same as Above
15					
					14-15.4 - Same as above - soft at 14.4-15.4 - Refusal-Rock at 15.4
16					
17					
18					
19					
20					

Comments: 0 PPM on PID
Sample from 0.5-1 feet
Temporary Well place - TMW-1 - dry

Geoprobe
Bore Hole Log

BE3 CORP PANAMERICAN
ENVIRONMENT • ENGINEERING • ENERGY
1270 Niagara Street
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:		1100 Niagara Street	
Client:	1100 Niagara	Location:	1100 Niagara Street, Buffalo, NY - See Report Figures
Contractor:	Natures Way	Lat/Long:	
Date Started:	5/16/2019	Equipment Model:	Geoprobe
Date Completed:	5/16/2019	Geologist/Technician:	John Boyd
Operator:	Dale	Ground Water:	
Bore Hole Number:	**SB-2**	Depth to Bedrock:	9 feet

Depth (Ft)	Sample NO	Sample TYPE	REC	PID (ppm)	Description
0				0.0	0-0.6 - dark br-black silt with fine f-c gravel + F-M sand - fill - slight odor
1					
2					
3					
4					0.6-4 - red-brown silty clay - fine gravel, F-M sand - moist - stiff
5					
6					4-6 - Same as above moist - medium stiff
					6-6.8 - brown silt, trace VF Sand + Fine gravel - moist - med dense
7					
8					6.8-8 - fine sand, trace silt & fine gravel, moist - med dense
					8-8.3 - grey med sand, trace fine gravel + C sand - loose
9					8.3-9 - brown fine sand, loose, moist
					Refusal - rock at 9 feet
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: 0 PPM on PID
Sample from 0.5-1 feet
Temporary Well place - TMW-2 - dry

Geoprobe
Bore Hole Log

BE3 CORP PANAMERICAN
ENVIRONMENT • ENGINEERING • ENERGY
1270 Niagara Street
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:		1100 Niagara Street	
Client:	1100 Niagara	Location:	1100 Niagara Street, Buffalo, NY - See Report Figures
Contractor:	Natures Way	Lat/Long:	
Date Started:	5/16/2019	Equipment Model:	Geoprobe
Date Completed:	5/16/2019	Geologist/Technician:	John Boyd
Operator:	Dale	Ground Water:	
Bore Hole Number:	**SB-3**	Depth to Bedrock:	14 feet

Depth (Ft)	Sample NO	Sample TYPE	REC	PID (ppm)	Description
0				0.0	
1					
					0-1.5 - dark brown silt, F-M sand & finegbravel -concrete - fill
2					
3					
4					1.5-4 - fill
5					
6					4-6 - fill - concrete and cinders - grey fill
7					
8					6-8 - brown clay - trace silt & fine rounded gravel, moist - med stiff
9					
10					
11					
12					8-12.9 - brown silty clay, trace sand and fine gravel, slightly soft - moist
13					
14					12.9-14 - wet brown F-C sand + fine gravel - loose. Refusal at 14
15					
16					
17					
18					
19					
20					

Comments: 0 PPM on PID
Sample from 0.5-1 feet

Geoprobe
Bore Hole Log

BE3 CORP PANAMERICAN
ENVIRONMENT • ENGINEERING • ENERGY
1270 Niagara Street
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:		1100 Niagara Street	
Client:	1100 Niagara	Location:	1100 Niagara Street, Buffalo, NY - See Report Figures
Contractor:	Natures Way	Lat/Long:	
Date Started:	5/16/2019	Equipment Model:	Geoprobe
Date Completed:	5/16/2019	Geologist/Technician:	John Boyd
Operator:	Dale	Ground Water:	
Bore Hole Number:	**SB-4**	Depth to Bedrock:	11.3 feet

Depth (Ft)	Sample NO	Sample TYPE	REC	PID (ppm)	Description
0					
1					01- weathered asphalt
2					
3					
4				0.0	1-4 - fill- grey-brown silt - trace F-C sand + fine gravel
					4-4.9 - fill - black M-C sand + fine gravel some silt moist -loose fill
5					
6					
7					
8					4.9-8 - red-brown silty clay - trace silt & fine gravel, moist - med stiff
9					
10					
11					8-11.3 - same as above
					Refusal at 11.3
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: 0 PPM on PID
Sample from 0.5-1 feet

Geoprobe
Bore Hole Log

BE3 CORP PANAMERICAN
ENVIRONMENT • ENGINEERING • ENERGY
1270 Niagara Street
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:		1100 Niagara Street	
Client:	1100 Niagara	Location:	1100 Niagara Street, Buffalo, NY - See Report Figures
Contractor:	Natures Way	Lat/Long:	
Date Started:	5/16/2019	Equipment Model:	Geoprobe
Date Completed:	5/16/2019	Geologist/Technician:	John Boyd
Operator:	Dale	Ground Water:	
Bore Hole Number:	**SB-5**	Depth to Bedrock:	8.5 feet (rock ?)

Depth (Ft)	Sample NO	Sample TYPE	REC	PID (ppm)	Description
0					
1					0-1.4 - black -dark brown silt some F-C sand, trace gravel - loose
2					
3					1.4-3.4 - gray silty clay trace F-M sand + fine gravel - med stiff, moist
4					3.4-4 - red brick - fill
5					
6					
7					
8					4-8 - red-brown silty clay - trace silt & fine gravel, moist
					refusal at 8.5
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: 0 PPM on PID
Sample from 0.5-1 feet

Geoprobe
Bore Hole Log

BE3 CORP PANAMERICAN
ENVIRONMENT • ENGINEERING • ENERGY
1270 Niagara Street
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:		1100 Niagara Street	
Client:	1100 Niagara	Location:	1100 Niagara Street, Buffalo, NY - See Report Figures
Contractor:	Natures Way	Lat/Long:	
Date Started:	5/16/2019	Equipment Model:	Geoprobe
Date Completed:	5/16/2019	Geologist/Technician:	John Boyd
Operator:	Dale	Ground Water:	
Bore Hole Number:	**SB-5**	Depth to Bedrock:	8.5 feet (rock ?)

Depth (Ft)	Sample NO	Sample TYPE	REC	PID (ppm)	Description
0					
1					0-1.4 - black -dark brown silt some F-C sand, trace gravel - loose
2					
3					1.4-3.4 - gray silty clay trace F-M sand + fine gravel - med stiff, moist
4					3.4-4 - red brick - fill
5					
6					
7					
8					4-8 - red-brown silty clay - trace silt & fine gravel, moist
					refusal at 8.5
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: 0 PPM on PID
Sample from 0.5-1 feet

Geoprobe
Bore Hole Log

BE3 CORP PANAMERICAN
ENVIRONMENT • ENGINEERING • ENERGY
1270 Niagara Street
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:		1100 Niagara Street	
Client:	1100 Niagara	Location:	1100 Niagara Street, Buffalo, NY - See Report Figures
Contractor:	Natures Way	Lat/Long:	
Date Started:	5/16/2019	Equipment Model:	Geoprobe
Date Completed:	5/16/2019	Geologist/Technician:	John Boyd
Operator:	Dale	Ground Water:	
Bore Hole Number:	**SB-6**	Depth to Bedrock:	15.5 feet

Depth (Ft)	Sample NO	Sample TYPE	REC	PID (ppm)	Description
0					
1					
2					
3					
4					0-4 - brown silty clay some F-C sand + fine bravel with traces of red
					brick - fill
5					4-5 - brick, concrete, rock - lose - fill
6					
7					
8					5-8 - gray silty clay - some pieces of concrete and F gravel
					8-8.9 - red brick - fill
9					
10					
11					
12					8.9-12 - gray silty clay, some F-C sand and trace fine gravel, brick & concrete - fill
13					
14					
15					12-15.5 - gray-brown silty clay some sand + fine gravel, concrete and brick fill
					refusal - 15.5 wet + soft bottom 5 feet
16					
17					
18					
19					
20					

Comments: 0 PPM on PID
Sample from 0.5-1 feet

Geoprobe
Bore Hole Log

BE3 CORP PANAMERICAN
ENVIRONMENT • ENGINEERING • ENERGY
1270 Niagara Street
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:		1100 Niagara Street	
Client:	1100 Niagara	Location:	1100 Niagara Street, Buffalo, NY - See Report Figures
Contractor:	Natures Way	Lat/Long:	
Date Started:	5/16/2019	Equipment Model:	Geoprobe
Date Completed:	5/16/2019	Geologist/Technician:	John Boyd
Operator:	Dale	Ground Water:	
Bore Hole Number:	**SB-7**	Depth to Bedrock:	11 feet

Depth (Ft)	Sample NO	Sample TYPE	REC	PID (ppm)	Description
0					
1					
2					
3					
4					0-4 - brown-grey silty clay, trace F-C sand + fine bravel with traces of red
					brick - fill wet at 3.8-4 feet
5					
6					
7					
8					4-8 - brown silty clay, trace fine gravel + sand - soft - fill
9					
10					
11					8-11 - brown clay with trace of sand + fine gravel - stiff refusal 11 feet
					Place TMW-3
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: 0 PPM on PID
Soil Sample from 0.5-1 feet
Sample Groundwater fo VOCs