

# ENVIRONMENTAL SITE ASSESSMENT

PILGRIM VILLAGE  
1100 MICHIGAN AVENUE  
BUFFALO, NEW YORK


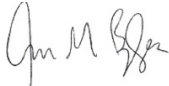
Prepared for:  
SAAKC  
150 SE 2nd Avenue  
Suite 300  
Miami, FL 33131

Prepared by:



1270 Niagara Street  
Buffalo, NY 14213  
716.249.6880  [be3corp.com](http://be3corp.com)

March 2020

<b>Prepared By:</b> Peter J. Gorton, MPH CHCM	<b>Signature:</b> 	<b>Date:</b> April 2020	<b>Title:</b> BE3 – PM
<b>Reviewed By:</b> Jason M. Brydges, PE	<b>Signature:</b> 	<b>Date:</b> April 2020	<b>Title:</b> 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.....	2
1.2.3	Historical Use.....	2
1.2.4	Contaminants of Concern.....	2
1.3	Scope.....	2
2.0	FIELD INVESTIGATIONS.....	2
2.1	Soil Sampling.....	3
2.2	Soil Screening.....	4
2.3	Previous Phase II ESA.....	4
2.4	Sampling Rationale.....	4
3.0	RESULTS.....	4
3.1	Subsurface Conditions.....	4
3.2	Analytical Results.....	5
3.2.1	Subsurface-Near Surface Soil.....	5
4.0	CONCLUSIONS & RECOMMENDATIONS.....	6
5.0	WARRANTS AND LIMITATIONS.....	6
6.0	PROFESSIONAL STATEMENT/SIGNATURE.....	7

## **TABLES**

---

- 1 Soil Sample Analytical Results Summary

## **FIGURES/DRAWINGS**

---

- 1 Property Location Map
- 2 Area showing Subject Future Re-Development
- 3 Boring 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 subsurface environmental site assessment (ESA) at the 1100 Michigan Avenue (Pilgrim Village) property, Buffalo NY (see **Figure 1**). The property contains a portion of the Pilgrim Village residential apartment complex. This assessment was relegated to the northwest area of the complex as that is the portion pertinent to future re-development by the client (refer to **Figure 2**). The purpose of the assessment was to obtain additional information and data for assessing the environmental impacts at the property and to use in a NYSDEC Brownfields Cleanup Program (BCP) application. The data collected for this report will be added to data from a previous recent Phase II ESA for assessment purposes.

A Phase I ESA and as mentioned a Phase II ESA were completed previously by others for the property.

## 1.2 BACKGROUND

### 1.2.1 General Site Setting

The Pilgrim Village Apartment complex is located on the block bounded by Best Street, Michigan Avenue, East North Street and Ellicott Street in Buffalo, New York, (refer to **Figure 1**). The portion that is the subject of this assessment is located at the southwest corner of Best and Michigan Streets. The entire complex has a total area of approximately 7.9 acres and the subject area is about 2-acres. The entire complex is currently occupied by twelve apartment buildings that were constructed sometime prior to 1981. Prior to the apartment complex the property was occupied by dense residential housing with several small shops, from the late 1800s through the mid 1970s. A gasoline filling station was located on the northeast corner parcel at Michigan and Best Streets from at least 1951 through at least the 1960s.

The area just east is one of the highest points in the City of Buffalo and one of the nearby streets - North Street- received its name because it was once the northern boundary of the Village and then the City of Buffalo. In the early 1800's (1832) the adjacent property to the east and the school property further east was set aside as a "Potter's Field" where victims of cholera epidemics, poor, indigent and those without religious affiliation could be buried. The cemetery was located on a parcel of former farmland bounded by Best, Cemetery (later Prospect and Masten Streets), North, and Michigan Streets. It remained in use as a paupers (or strangers) burying ground for the better part of the ensuing 40 or 50 years. It stopped being used as a cemetery by at least the mid-1880s. In 1885, the City hired renowned landscape architect Frederick Law Olmsted to convert the land, then surrounded by bustling neighborhoods, into a public park overlooking the city. Olmsted spent two years regrading and changing the land into park. In 1895, the City decided to build its second high school on the part of the cemetery land to the east of the subject property. Masten Park High School opened in 1897 under the leadership of Frank Fosdick. The original Masten Park High School burned down in March of 1912. The new Masten Park High School was designed by architects Esenwein and Johnson using the template of their 1903 Lafayette High School design and opened in the fall of 1914. Frank Fosdick served as principal until 1926. After his death in 1927 the school was renamed "Fosdick-Masten Park High School." The site became the present City Honors School in 1980. Human burials from the former potter's field were discovered during renovations on the adjacent school property in 2007. Based on the historical maps, it does not appear that human burials ever existed on the subject property.

### 1.2.2 Physical Setting

The Property is currently part of an apartment complex containing separate units and parking areas surrounded by grass covered lawns with some trees. A slightly elevated grass covered berm runs north south in front of the units along Michigan Street.

### 1.2.3 Historical Use

Prior to the apartment complex the property was occupied by dense residential housing with several small shops, from the late 1800s through the mid 1970s. A gasoline filling station was located on the northeast corner parcel at Michigan and Best Streets from at least 1951 through at least the 1960s.

### 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 and the area of the former filling station in the northeast corner of the subject property. The primary contaminants associated with impacted fill or urban fill are specific SVOCs, mainly Polyaromatic hydrocarbon compounds (PAHs) and metals. The potential for petroleum impacts exists in the northeast corner however neither a previous Phase II ESA nor this subsurface assessment identified petroleum impacts in that area.

## 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 near subsurface soil assessment through observation of depth of fill and overburden and sampling of fill materials across the parcel.

The subsurface assessment included the installation of a series of thirteen (13) Geoprobe® soil borings at designated locations (Refer to attached **Figure 2**). The scope included the collection of “worst-case” soil samples from a soil zone that indicated potential environmental impacts/fill conditions. Ten near surface soil samples were collected at locations across the property. Soil samples were analyzed for 6 NYCRR Part 375 SVOCs and metals. Analysis was restricted to these parameters based on the findings of a previous Phase II ESA completed on the property.

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 ten (10) locations. The soil samples were submitted to a New York State approved laboratory for analysis of NYSDEC NYCRR Part 375 compounds indicated.

## 2.0 FIELD INVESTIGATIONS

The subsurface assessment field work was completed on a single day on March 12, 2020. 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 thirteen (13) Geoprobe® soil borings designated BH-1 through BH-13 were advanced at specific locations across the property (refer to attached **Figure 2**). Soil borings were field located to assess the subsurface across the property and adjacent to the onsite buildings.

The Geoprobe field work was performed by BE3 and TREC Environmental, Inc (Geoprobe operator) during a one-day period on March 12, 2020. Borings were advanced to a depth of 8 to 12 feet below ground surface (bgs). The borings were completed using a fully equipped track 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'). 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 ten (10) subsurface/near-surface soil samples were collected in the fill material as follows:

- BH-1 at 0-2 feet bgs. Total depth of boring was 8 feet bgs into native reddish-brown clay. Fill was observed to 2.5-foot bgs
- BH-2 at 0.5-1.5 feet bgs. Total depth of boring was 8 feet bgs into native reddish-brown clay. Fill was observed to 1.5-foot bgs
- BH-3 at 1-3.5 feet bgs. Total depth of boring was 12 feet bgs into native reddish-brown clay. Fill was observed to 3.5-foot bgs
- BH-4 at 1-3.5 feet bgs. Total depth of boring was 8 feet bgs into native reddish-brown clay. Fill was observed to 4-foot bgs
- BH-5 at 1-2 feet bgs. Total depth of boring was 8 feet bgs into native reddish-brown clay. Fill was observed to 4-foot bgs
- BH-6 at 1-2.5 feet bgs. Total depth of boring was 12 feet bgs into native reddish-brown clay. Fill was observed to 4-foot bgs
- BH-7 – No soil sample collected. Total depth of boring was 8 feet bgs into native reddish-brown clay. Fill was observed to 3.5-foot bgs
- BH-8 at 1-2.5 feet bgs. Total depth of boring was 8 feet bgs into native reddish-brown clay. Fill was observed to 3-foot bgs
- BH-9 No soil sample collected. Total depth of boring was 8 feet bgs into native reddish-brown clay. Fill was observed to 3.5-foot bgs
- BH-10 at 0.5-2 feet bgs. Total depth of boring was 8 feet bgs into native reddish-brown clay. Fill was observed to 2-foot bgs
- BH-11 at 0.5-1.5 feet bgs. Total depth of boring was 8 feet bgs into native reddish-brown clay. Fill was observed to 4-foot bgs
- BH-12 – No soil sample collected. Total depth of boring was 8 feet bgs into native reddish-brown clay. Fill was observed to 4-foot bgs
- BH-13 at 0.5-1.5 feet bgs. Total depth of boring was 8 feet bgs into native reddish-brown clay. Fill was observed to 2-foot bgs

Since no visual observations or elevated PID readings 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, occasional concrete and cinder that varies in depth across the property ranging from 1.5 to 4 feet bgs. Below the fill layer is typically silty reddish-brown clay with some sand. 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 photoionization detector (PID). 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 odors or elevated PID readings were observed. As indicated, samples were collected at each of the ten (10) locations in the fill for laboratory analysis.

## 2.3 PREVIOUS PHASE II ESA

C&S Engineers, Inc. (C&S) completed a Limited Site Characterization of the larger Pilgrim Village property in July 2019 (report issued). This investigation overlapped with the portion of the property which is the subject of this report. A summary of their results is provided below in Section 3.0. Twenty-four soil borings (24) designated SB-01 through SB-24 were completed by TREC under C&S observation. The borings were advanced to depths ranging from approximately 8 to 12 feet bgs using a Geoprobe® direct-push sampling system. The locations of the soil borings that overlapped the area covered in this report are shown on **Table 2** and **Figure 2**.

## 2.4 SAMPLING RATIONALE

The purpose of the assessment 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. 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.

## 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). A summary of results from this assessment are provided in **Table 1** and the previous Phase II ESA in **Table 2**. Both are shown on Figure 2. The complete set of analytical data for this subsurface assessment 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 **Tables 1&2** 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**.

Both this investigation and the C&S report noted that urban fill was encountered throughout the property. The soil sample analysis from their characterization indicated that the fill contained concentrations of metals and SVOCs above NYSDEC SCOs.

### 3.2.1 Subsurface-Near Surface Soil

Subsurface-Near Surface soil samples were collected at each of the ten (10) 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 ten (10) subsurface soil samples only BH-3 and BH-5 had reported SVOCs, mostly PAH compounds, above DEC SCOs. The PAHs Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, , Dibenz(a,h)anthracene, and Indeno(1,2,3-cd)pyrene were all above restricted residential SCOs. The PAHs Benzo(k)fluoranthene and Chrysene were above unrestricted 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. Nine of the ten borehole soil samples were above unrestricted SCOs for various metals including lead, mercury and zinc. Borehole BH-2 was the exception. Two of the boreholes, BH-6 and BH-8 were above unrestricted levels; BH-6 was above for lead and BH-8 for mercury. Refer to **Table 1** for specific details on metal exceedances and concentrations/comparisons to SCOs.

Eight samples from the previous Phase II ESA completed in 2019 had metal exceedances above unrestricted SCOs. Three were above the restricted residential SCOs for lead and one was above the restricted SCOs for mercury. Refer to **Table 2** for a summary of the Phase II ESA results.

**Figure 2** contains a summary of exceedances for both investigations data sets as found across the property.

## 4.0 CONCLUSIONS & RECOMMENDATIONS

The purpose of this assessment was to identify potential contamination in the near-surface soil at 1100 Michigan Street, Buffalo NY. Previous Phase II ESA results indicated elevated levels of metal compounds above SCOs in soils at the property and at adjacent properties.

Field observations and laboratory results indicate that there are urban fill conditions in the near-surface soil resulting in compounds above residential SCOs across the property. The fill depth varied from about one foot to four feet bgs across the property typically over reddish-brown silty clay which is common native soils in this area.

This subsurface assessment together with the previous Phase II ESA represent an assessment of near-subsurface 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.

## 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 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 SAAKC 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 subsurface 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 subsurface assessment at 1100 Michigan 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.



April 7, 2020

---

Peter J. Gorton, MPH, CHCM

Date

Total Years of Environmental Work Experience – Over 40

# TABLES

**TABLE 1  
1100 MICHIGAN STREET - PILGRAM VILLAGE SOIL BORING SAMPLE ANALYTICAL RESULTS SUMMARY**

Contaminants	Sample Identification										Unrestricted	Residential	Restricted Residential
	BH-1 (0-2')	BH-2 (0.5-1.5')	BH-3 (1-3.5')	BH-4 (1-3.5')	BH-5 (1-2')	BH-6 (1-2.5')	BH-8 (1-2.5')	BH-10 (0.5-2')	BH-11 (0.5-1.5')	BH-13 (0.5-1.5')			
Sample Date	3/12/20	3/12/20	3/12/20	3/12/20	3/12/20	3/12/20	3/12/20	3/12/20	3/12/20	3/12/20			
METALS													
Arsenic	6.04	3.8	6.8	6.1	5.49	7.4	4.2	2.9	3.0	5.13	13	16	16
Barium	92.3	23.2	75.2	106	112	234	128	75.9	61.5	80.0	350	350	400
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.2	14	72
Cadmium	1.08	0.62	0.81	0.683	1.05	1.02	0.575	0.615	0.530	0.810	2.5	2.5	4.3
Chromium	16.6	16.4	14.2	13.1	15.0	17.6	13.1	10.4	13.2	15.3	30	36	180
Copper	22.7	12.6	18	17.8	21.9	29.6	21.7	16.0	13.5	54.8	50	270	270
Lead	111	20.3	168	333	256	1370	397	116	84.4	166	63	400	400
Manganese	303	202	372	238	510	252	360	482	305	357	1600	2,000	2,000
Total Mercury	0.25	0.05	0.24	0.274	0.364	0.660	1.35	0.395	0.148	0.220	0.18	0.81	0.81
Nickel	15.8	16.1	11.4	11.2	11.5	13.3	7.30	7.88	10.2	13.6	30	140	310
Selenium	2.7	ND	1.8	ND	2.22	2.16	2.18	2.73	1.43	ND	3.9	36	180
Silver	1.13	0.67	0.96	0.693	0.767	0.762	0.663	0.764	0.693	0.840	2	36	180
Zinc	92	33.1	111	148	173	213	199	122	92.7	123	109	2200	10,000
SEMIVOLATILE ORGANIC COMPOUNDS													
Acenaphthene	ND	ND	ND	ND	0.7	ND	ND	ND	ND	ND	20	100	100
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	100	100
Anthracene	ND	ND	0.45	ND	1.64	ND	ND	ND	ND	ND	100	100	100
Benz(a)anthracene	ND	0.29	1.29	ND	2.82	ND	ND	ND	ND	ND	1	1	1
Benzo(a)pyrene	ND	0.45	1.16	ND	2.39	ND	ND	ND	ND	ND	1	1	1
Benzo(b)fluoranthene	ND	0.54	1.11	ND	2.25	ND	ND	ND	ND	ND	1	1	1
Benzo(g,h,i)perylene	ND	0.46	0.66	ND	1.36	ND	ND	ND	ND	ND	100	100	100
Benzo(k)fluoranthene	ND	0.41	0.81	ND	1.71	ND	ND	ND	ND	ND	0.8	1	3.9
Chrysene	ND	0.45	1.24	ND	2.56	ND	ND	ND	ND	ND	1	1	3.9
Dibenz(a,h)anthracene	ND	ND	ND	ND	0.49	ND	ND	ND	ND	ND	0.33	0.33	0.33
Fluoranthene	ND	0.69	2.91	ND	5.56	ND	0.46	ND	ND	0.32	100	100	100
Fluorene	ND	ND	ND	ND	0.88	ND	ND	ND	ND	ND	30	100	100
Indeno(1,2,3-cd)pyrene	ND	0.42	0.61	ND	1.27	ND	ND	ND	ND	ND	0.5	0.5	0.5
Naphthalene	ND	ND	ND	ND	0.89	ND	ND	ND	ND	ND	12	100	100
Phenanthrene	ND	ND	2.3	ND	5.45	ND	ND	ND	ND	ND	100	100	100
Pyrene	ND	0.6	2.3	ND	4.6	ND	0.43	ND	ND	ND	100	100	100

ND - Non-Detect NA - Not Applicable

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

>= to Unrestricted/Residential/Restricted-Residential SCOs

All values in ppm

>= to Unrestricted only



**TABLE 2  
PILGRAM VILLAGE SOIL BORING SAMPLE ANALYTICAL RESULTS SUMMARY- PHASE 2 ESA JUNE 2019 By C&S**

Contaminants	Sample Identification										Unrestricted	Residential	Restricted Residential
	SB-6 (2-3')	SB-9 (1-2')	SB-10 (1-2')	SB-11 (4-5')	SB-12 (1-2')	SB-13 (1-2')	SB-14 (1-2')	SB-15 (1-2')	SB-16 (4-5')				
Sample Date	6/6/19	6/6/19	6/6/19	6/6/19	6/6/19	6/6/19	6/6/19	6/6/19	6/6/19	6/6/19			
METALS													
Arsenic	5.70	6.8	1.8	5.97	5.91	5.4	2.5	3.9	8.1	13	16	16	
Barium	125.0	106.0	45.6	153	118	68.5	27.9	64.8	144	350	350	400	
Beryllium	0.46	0.54	0.23	0.21	0.25	0.35	0.15	0.4	0.31	7.2	14	72	
Cadmium	0.53	ND	0.16	0.6	0.23	0.1	0.1	ND	0.17	2.5	2.5	4.3	
Chromium	13.2	16.7	7.4	10.9	9.42	11.7	7.2	15	9.65	30	36	180	
Copper	16.8	20.4	15.3	26.5	20.4	15.3	11.8	21.6	20.9	50	270	270	
Lead	97	987.0	38	495	185	76.5	14.3	74.3	408	63	400	400	
Manganese	1260	520	238	465	456	306	296	293	194	1600	2,000	2,000	
Total Mercury	0.13	0.13	0.12	0.47	0.96	0.06	0.32	ND	0.28	0.18	0.81	0.81	
Nickel	11.2	19.9	4.6	9.71	6.7	12.1	7.6	21.6	10.3	30	140	310	
Selenium	0.3	ND	ND	0.79	ND	ND	ND	ND	ND	3.9	36	180	
Silver	ND	ND	ND	0.5	ND	ND	ND	ND	ND	2	36	180	
Zinc	123	92.4	87	228	118	96.6	78.4	79.1	272	109	2200	10,000	

ND - Non-Detect NA - Not Applicable

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

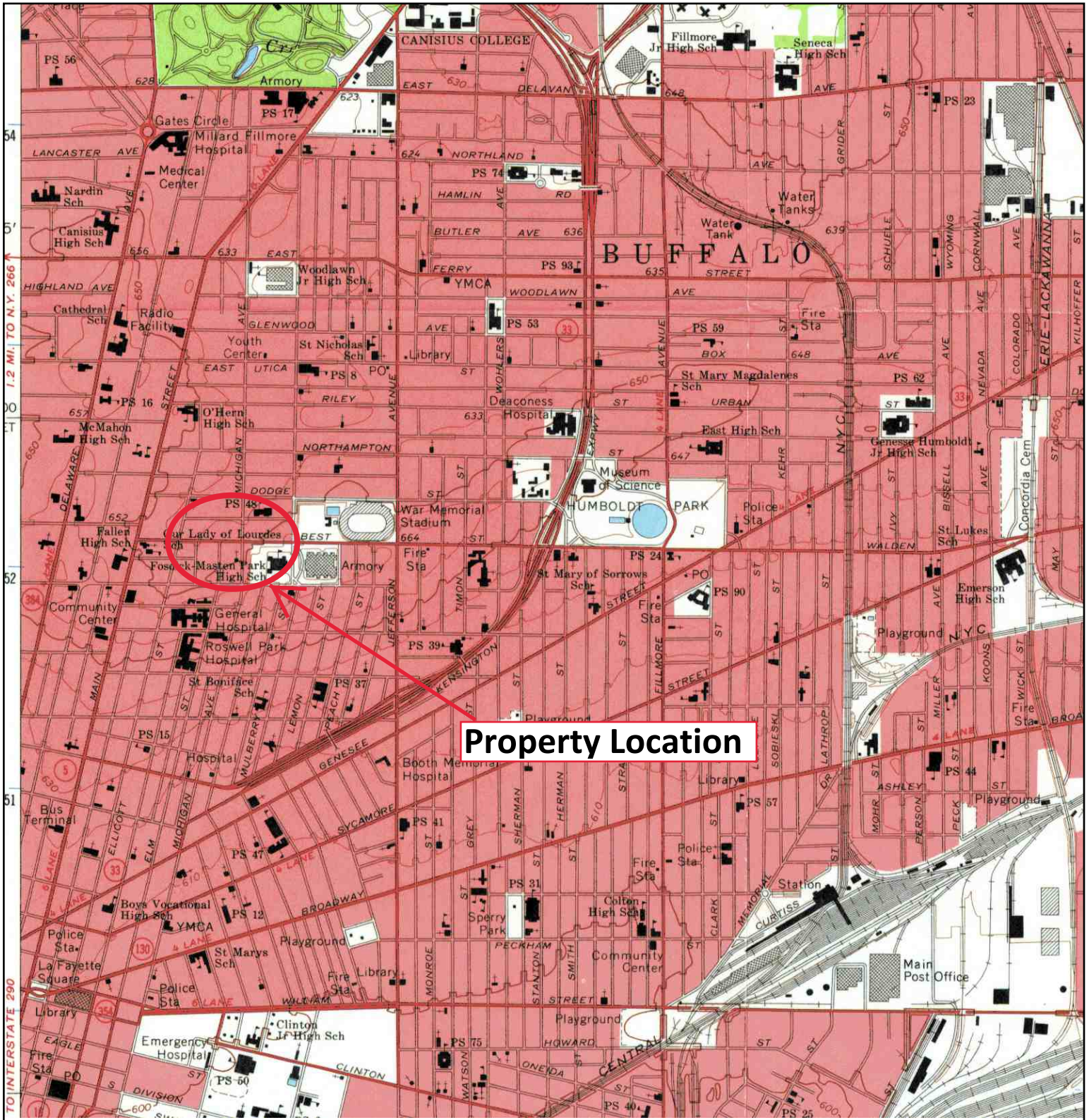
>= to Unrestricted/Residential/Restricted-Residential SCOs


All values in ppm

>= to Unrestricted only

# FIGURES

# Historical Topographic Map



	<b>TARGET QUAD</b>
	NAME: BUFFALO NE
	MAP YEAR: 1965
	SERIES: 7.5
	SCALE: 1:24000

**FIGURE 1: Property Location**



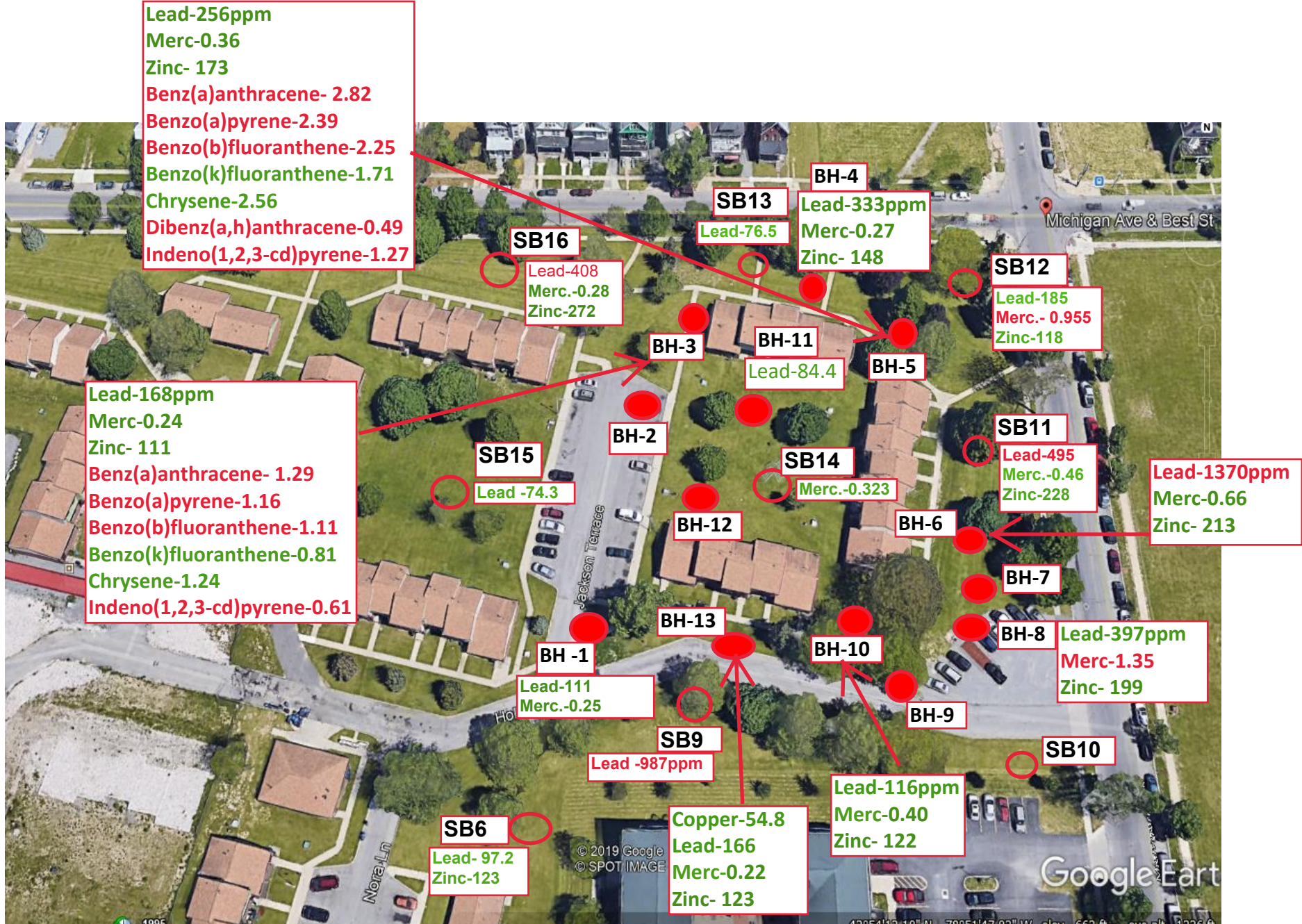


Figure - Boring Locations and Soil Sample Exceedances in ppm

Key:

- June 2019 C&S Soil Sample Results
- March 2020 BE3 Soil Sampling Results
- Red Box: Greater Than or equal to Unrestricted/Residential/Restricted Residential SCOs
- Green Box: Greater Than or equal to Unrestricted SCOs

# APPENDICES

# **APPENDIX 1**

## **PHOTOGRAPHS**



# BE3 Photolog

Date: 3/12/20



1. Location of Borehole BH-1 at corner of Holloway Blvd. & Jackson Street from north facing south



2. Location of BH-1 from west facing east



3. Location of BH-1 from southwest facing northeast



4. Soil cores BH-1



# BE3 Photolog

Date: 3/12/20



5. Location of BH-2 from west looking east at northwest corner of property exiting parking area



6. Location of BH-2 from northwest corner of property facing south



7. Soil cores from BH-2



8. Location of Borehole BH-3 at northwest corner of property from west facing east



# BE3 Photolog

Date: 3/12/20



9. Location of BH-3 from northwest facing south east



10. Soil cores from BH-3



11. Location of Borehole BH-4 from north along Best Street facing south at north end of complex



12. Location of BH-4 from west facing east



# BE3 Photolog

Date: 3/12/20



13. Soil cores from BH-4



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



15. Location of Borehole BH-5 from north facing South



16. Soil Cores from BH-5



# BE3 Photolog

Date: 3/12/20



17. Location of Borehole BH-6 (Top of Berm) eastern side of property along Michigan Ave. from south facing north



18. Location of Borehole BH-6 from east along Michigan Avenue facing west



19. Soil cores from BH-6



20. Location of borehole BH-7 from south facing north



# BE3 Photolog

Date: 3/12/20



21. Location of Borehole BH-7 east side of Michigan Ave. facing west



22. Soil cores from BH-7



23. Location of Borehole BH-8 from east facing west



24. Location of borehole BH-8 from north facing south



# BE3 Photolog

Date: 3/12/20



25. Location of Borehole BH-9 east along Michigan Ave. facing west



26. Location of Borehole BH-9 from south facing north west



27. Soil cores from BH-9



28. Location of borehole BH-10 from east facing west



# BE3 Photolog

Date: 3/12/20



29. Location of Borehole BH-10 from south facing north



30. Soil cores from BH-10



31. Location of Borehole BH-11 from south facing north



32. Location of borehole BH-11 from west facing east



# BE3 Photolog

Date: 3/12/20



33. Soil cores from Borehole BH-11



34. Location of Borehole BH-12 from west facing east



35. Location of Borehole BH-12 from north facing south



36. Soil cores from BH-12



# BE3 Photolog

Date: 3/12/20



37. Location of Borehole BH-13 from south across Holloway Blvd. facing north



38. Location of Borehole BH-13 from east facing west along Holloway Blvd.



39. Soil cores from BH-13

# **APPENDIX 2**

## **LAB DATA**



**PARADIGM**  
ENVIRONMENTAL SERVICES, INC.

*Analytical Report For*

**BE3**

*For Lab Project ID*

**201123**

*Referencing*

**1100 Michigan Pilgrim Village**

*Prepared*

**Thursday, March 26, 2020**

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

A handwritten signature in blue ink, appearing to read "R. Regal", is written over a horizontal line.

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

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

*Report Prepared Thursday, March 26, 2020*

Page 1 of 45



Lab Project ID: 201123

Client: **BE3**  
Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-1 0-2 FT  
Lab Sample ID: 201123-01  
Matrix: Soil  
Date Sampled: 3/12/2020  
Date Received: 3/13/2020

**Part 375 Metals (ICP)**

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	6.04	mg/Kg	D	3/23/2020 21:33
Barium	92.3	mg/Kg		3/23/2020 21:33
Beryllium	< 0.310	mg/Kg		3/23/2020 21:33
Cadmium	1.08	mg/Kg	D	3/23/2020 21:33
Chromium	16.6	mg/Kg		3/23/2020 21:33
Copper	22.7	mg/Kg		3/23/2020 21:33
Lead	111	mg/Kg	D	3/23/2020 21:33
Manganese	303	mg/Kg	M	3/23/2020 21:33
Nickel	15.8	mg/Kg	M	3/23/2020 21:33
Selenium	2.66	mg/Kg	M	3/23/2020 21:33
Silver	1.13	mg/Kg	D	3/23/2020 21:33
Zinc	92.0	mg/Kg	M	3/23/2020 21:33

Method Reference(s): EPA 6010C  
EPA 3050B  
Preparation Date: 3/23/2020  
Data File: 200323B

**Mercury**

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.254	mg/Kg		3/18/2020 12:17

Method Reference(s): EPA 7471B  
Preparation Date: 3/17/2020  
Data File: Hg200318A

**Semi-Volatile Organics (Acid/Base Neutrals)**

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 342	ug/Kg		3/17/2020 05:32
1,2,4,5-Tetrachlorobenzene	< 342	ug/Kg		3/17/2020 05:32
1,2,4-Trichlorobenzene	< 342	ug/Kg		3/17/2020 05:32
1,2-Dichlorobenzene	< 342	ug/Kg		3/17/2020 05:32

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

**Client:** BE3
**Project Reference:** 1100 Michigan Pilgrim Village

**Sample Identifier:** BH-1 0-2 FT

**Lab Sample ID:** 201123-01

**Date Sampled:** 3/12/2020

**Matrix:** Soil

**Date Received:** 3/13/2020

1,3-Dichlorobenzene	< 342	ug/Kg	3/17/2020 05:32
1,4-Dichlorobenzene	< 342	ug/Kg	3/17/2020 05:32
2,2-Oxybis (1-chloropropane)	< 342	ug/Kg	3/17/2020 05:32
2,3,4,6-Tetrachlorophenol	< 342	ug/Kg	3/17/2020 05:32
2,4,5-Trichlorophenol	< 342	ug/Kg	3/17/2020 05:32
2,4,6-Trichlorophenol	< 342	ug/Kg	3/17/2020 05:32
2,4-Dichlorophenol	< 342	ug/Kg	3/17/2020 05:32
2,4-Dimethylphenol	< 342	ug/Kg	3/17/2020 05:32
2,4-Dinitrophenol	< 1370	ug/Kg	3/17/2020 05:32
2,4-Dinitrotoluene	< 342	ug/Kg	3/17/2020 05:32
2,6-Dinitrotoluene	< 342	ug/Kg	3/17/2020 05:32
2-Chloronaphthalene	< 342	ug/Kg	3/17/2020 05:32
2-Chlorophenol	< 342	ug/Kg	3/17/2020 05:32
2-Methylnaphthalene	< 342	ug/Kg	3/17/2020 05:32
2-Methylphenol	< 342	ug/Kg	3/17/2020 05:32
2-Nitroaniline	< 342	ug/Kg	3/17/2020 05:32
2-Nitrophenol	< 342	ug/Kg	3/17/2020 05:32
3&4-Methylphenol	< 342	ug/Kg	3/17/2020 05:32
3,3'-Dichlorobenzidine	< 342	ug/Kg	3/17/2020 05:32
3-Nitroaniline	< 342	ug/Kg	3/17/2020 05:32
4,6-Dinitro-2-methylphenol	< 458	ug/Kg	3/17/2020 05:32
4-Bromophenyl phenyl ether	< 342	ug/Kg	3/17/2020 05:32
4-Chloro-3-methylphenol	< 342	ug/Kg	3/17/2020 05:32
4-Chloroaniline	< 342	ug/Kg	3/17/2020 05:32
4-Chlorophenyl phenyl ether	< 342	ug/Kg	3/17/2020 05:32
4-Nitroaniline	< 342	ug/Kg	3/17/2020 05:32
4-Nitrophenol	< 342	ug/Kg	3/17/2020 05:32
Acenaphthene	< 342	ug/Kg	3/17/2020 05:32
Acenaphthylene	< 342	ug/Kg	3/17/2020 05:32
Acetophenone	< 342	ug/Kg	3/17/2020 05:32





Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-1 0-2 FT

Lab Sample ID: 201123-01

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

Anthracene	< 342	ug/Kg	3/17/2020 05:32
Atrazine	< 342	ug/Kg	3/17/2020 05:32
Benzaldehyde	< 342	ug/Kg	3/17/2020 05:32
Benzo (a) anthracene	< 342	ug/Kg	3/17/2020 05:32
Benzo (a) pyrene	< 342	ug/Kg	3/17/2020 05:32
Benzo (b) fluoranthene	< 342	ug/Kg	3/17/2020 05:32
Benzo (g,h,i) perylene	< 342	ug/Kg	3/17/2020 05:32
Benzo (k) fluoranthene	< 342	ug/Kg	3/17/2020 05:32
Bis (2-chloroethoxy) methane	< 342	ug/Kg	3/17/2020 05:32
Bis (2-chloroethyl) ether	< 342	ug/Kg	3/17/2020 05:32
Bis (2-ethylhexyl) phthalate	< 342	ug/Kg	3/17/2020 05:32
Butylbenzylphthalate	< 342	ug/Kg	3/17/2020 05:32
Caprolactam	< 342	ug/Kg	3/17/2020 05:32
Carbazole	< 342	ug/Kg	3/17/2020 05:32
Chrysene	< 342	ug/Kg	3/17/2020 05:32
Dibenz (a,h) anthracene	< 342	ug/Kg	3/17/2020 05:32
Dibenzofuran	< 342	ug/Kg	3/17/2020 05:32
Diethyl phthalate	< 342	ug/Kg	3/17/2020 05:32
Dimethyl phthalate	< 342	ug/Kg	3/17/2020 05:32
Di-n-butyl phthalate	< 342	ug/Kg	3/17/2020 05:32
Di-n-octylphthalate	< 342	ug/Kg	3/17/2020 05:32
Fluoranthene	< 342	ug/Kg	3/17/2020 05:32
Fluorene	< 342	ug/Kg	3/17/2020 05:32
Hexachlorobenzene	< 342	ug/Kg	3/17/2020 05:32
Hexachlorobutadiene	< 342	ug/Kg	3/17/2020 05:32
Hexachlorocyclopentadiene	< 1370	ug/Kg	3/17/2020 05:32
Hexachloroethane	< 342	ug/Kg	3/17/2020 05:32
Indeno (1,2,3-cd) pyrene	< 342	ug/Kg	3/17/2020 05:32
Isophorone	< 342	ug/Kg	3/17/2020 05:32
Naphthalene	< 342	ug/Kg	3/17/2020 05:32

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





Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-1 0-2 FT

Lab Sample ID: 201123-01

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

Nitrobenzene	< 342	ug/Kg	3/17/2020	05:32
N-Nitroso-di-n-propylamine	< 342	ug/Kg	3/17/2020	05:32
N-Nitrosodiphenylamine	< 342	ug/Kg	3/17/2020	05:32
Pentachlorophenol	< 684	ug/Kg	3/17/2020	05:32
Phenanthrene	< 342	ug/Kg	3/17/2020	05:32
Phenol	< 342	ug/Kg	3/17/2020	05:32
Pyrene	< 342	ug/Kg	3/17/2020	05:32

<b>Surrogate</b>	<b>Percent Recovery</b>	<b>Limits</b>	<b>Outliers</b>	<b>Date Analyzed</b>
2,4,6-Tribromophenol	<b>69.7</b>	35.1 - 89.5		3/17/2020 05:32
2-Fluorobiphenyl	<b>69.7</b>	37.7 - 81.4		3/17/2020 05:32
2-Fluorophenol	<b>63.7</b>	40.2 - 77		3/17/2020 05:32
Nitrobenzene-d5	<b>67.0</b>	36.2 - 78.4		3/17/2020 05:32
Phenol-d5	<b>67.0</b>	41.2 - 77.1		3/17/2020 05:32
Terphenyl-d14	<b>76.6</b>	39.8 - 97.5		3/17/2020 05:32

Method Reference(s): EPA 8270D  
 EPA 3546  
 Preparation Date: 3/16/2020  
 Data File: B45116.D



**Client:** BE3

**Project Reference:** 1100 Michigan Pilgrim Village

**Sample Identifier:** BH-2 0.5-1.5 FT

**Lab Sample ID:** 201123-02

**Date Sampled:** 3/12/2020

**Matrix:** Soil

**Date Received:** 3/13/2020

**Part 375 Metals (ICP)**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	3.77	mg/Kg		3/23/2020 21:46
Barium	23.2	mg/Kg		3/23/2020 21:46
Beryllium	< 0.251	mg/Kg		3/23/2020 21:46
Cadmium	0.624	mg/Kg		3/23/2020 21:46
Chromium	16.4	mg/Kg		3/23/2020 21:46
Copper	12.6	mg/Kg		3/23/2020 21:46
Lead	20.3	mg/Kg		3/23/2020 21:46
Manganese	202	mg/Kg		3/23/2020 21:46
Nickel	16.1	mg/Kg		3/23/2020 21:46
Selenium	< 3.01	mg/Kg		3/24/2020 10:30
Silver	0.671	mg/Kg		3/23/2020 21:46
Zinc	33.1	mg/Kg		3/23/2020 21:46

**Method Reference(s):** EPA 6010C  
EPA 3050B  
**Preparation Date:** 3/23/2020  
**Data File:** 200323B

**Mercury**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	0.0468	mg/Kg		3/18/2020 12:19

**Method Reference(s):** EPA 7471B  
**Preparation Date:** 3/17/2020  
**Data File:** Hg200318A

**Semi-Volatile Organics (Acid/Base Neutrals)**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1-Biphenyl	< 266	ug/Kg		3/17/2020 06:02
1,2,4,5-Tetrachlorobenzene	< 266	ug/Kg		3/17/2020 06:02
1,2,4-Trichlorobenzene	< 266	ug/Kg		3/17/2020 06:02
1,2-Dichlorobenzene	< 266	ug/Kg		3/17/2020 06:02

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

**Client:** BE3
**Project Reference:** 1100 Michigan Pilgrim Village

**Sample Identifier:** BH-2 0.5-1.5 FT

**Lab Sample ID:** 201123-02

**Date Sampled:** 3/12/2020

**Matrix:** Soil

**Date Received:** 3/13/2020

1,3-Dichlorobenzene	< 266	ug/Kg	3/17/2020 06:02
1,4-Dichlorobenzene	< 266	ug/Kg	3/17/2020 06:02
2,2-Oxybis (1-chloropropane)	< 266	ug/Kg	3/17/2020 06:02
2,3,4,6-Tetrachlorophenol	< 266	ug/Kg	3/17/2020 06:02
2,4,5-Trichlorophenol	< 266	ug/Kg	3/17/2020 06:02
2,4,6-Trichlorophenol	< 266	ug/Kg	3/17/2020 06:02
2,4-Dichlorophenol	< 266	ug/Kg	3/17/2020 06:02
2,4-Dimethylphenol	< 266	ug/Kg	3/17/2020 06:02
2,4-Dinitrophenol	< 1060	ug/Kg	3/17/2020 06:02
2,4-Dinitrotoluene	< 266	ug/Kg	3/17/2020 06:02
2,6-Dinitrotoluene	< 266	ug/Kg	3/17/2020 06:02
2-Chloronaphthalene	< 266	ug/Kg	3/17/2020 06:02
2-Chlorophenol	< 266	ug/Kg	3/17/2020 06:02
2-Methylnaphthalene	< 266	ug/Kg	3/17/2020 06:02
2-Methylphenol	< 266	ug/Kg	3/17/2020 06:02
2-Nitroaniline	< 266	ug/Kg	3/17/2020 06:02
2-Nitrophenol	< 266	ug/Kg	3/17/2020 06:02
3&4-Methylphenol	< 266	ug/Kg	3/17/2020 06:02
3,3'-Dichlorobenzidine	< 266	ug/Kg	3/17/2020 06:02
3-Nitroaniline	< 266	ug/Kg	3/17/2020 06:02
4,6-Dinitro-2-methylphenol	< 356	ug/Kg	3/17/2020 06:02
4-Bromophenyl phenyl ether	< 266	ug/Kg	3/17/2020 06:02
4-Chloro-3-methylphenol	< 266	ug/Kg	3/17/2020 06:02
4-Chloroaniline	< 266	ug/Kg	3/17/2020 06:02
4-Chlorophenyl phenyl ether	< 266	ug/Kg	3/17/2020 06:02
4-Nitroaniline	< 266	ug/Kg	3/17/2020 06:02
4-Nitrophenol	< 266	ug/Kg	3/17/2020 06:02
Acenaphthene	< 266	ug/Kg	3/17/2020 06:02
Acenaphthylene	< 266	ug/Kg	3/17/2020 06:02
Acetophenone	< 266	ug/Kg	3/17/2020 06:02



Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-2 0.5-1.5 FT

Lab Sample ID: 201123-02

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

Anthracene	< 266	ug/Kg	3/17/2020 06:02
Atrazine	< 266	ug/Kg	3/17/2020 06:02
Benzaldehyde	< 266	ug/Kg	3/17/2020 06:02
Benzo (a) anthracene	<b>294</b>	ug/Kg	3/17/2020 06:02
Benzo (a) pyrene	<b>452</b>	ug/Kg	3/17/2020 06:02
Benzo (b) fluoranthene	<b>537</b>	ug/Kg	3/17/2020 06:02
Benzo (g,h,i) perylene	<b>459</b>	ug/Kg	3/17/2020 06:02
Benzo (k) fluoranthene	<b>406</b>	ug/Kg	3/17/2020 06:02
Bis (2-chloroethoxy) methane	< 266	ug/Kg	3/17/2020 06:02
Bis (2-chloroethyl) ether	< 266	ug/Kg	3/17/2020 06:02
Bis (2-ethylhexyl) phthalate	< 266	ug/Kg	3/17/2020 06:02
Butylbenzylphthalate	< 266	ug/Kg	3/17/2020 06:02
Caprolactam	< 266	ug/Kg	3/17/2020 06:02
Carbazole	< 266	ug/Kg	3/17/2020 06:02
Chrysene	<b>450</b>	ug/Kg	3/17/2020 06:02
Dibenz (a,h) anthracene	< 266	ug/Kg	3/17/2020 06:02
Dibenzofuran	< 266	ug/Kg	3/17/2020 06:02
Diethyl phthalate	< 266	ug/Kg	3/17/2020 06:02
Dimethyl phthalate	< 266	ug/Kg	3/17/2020 06:02
Di-n-butyl phthalate	< 266	ug/Kg	3/17/2020 06:02
Di-n-octylphthalate	< 266	ug/Kg	3/17/2020 06:02
Fluoranthene	<b>692</b>	ug/Kg	3/17/2020 06:02
Fluorene	< 266	ug/Kg	3/17/2020 06:02
Hexachlorobenzene	< 266	ug/Kg	3/17/2020 06:02
Hexachlorobutadiene	< 266	ug/Kg	3/17/2020 06:02
Hexachlorocyclopentadiene	< 1060	ug/Kg	3/17/2020 06:02
Hexachloroethane	< 266	ug/Kg	3/17/2020 06:02
Indeno (1,2,3-cd) pyrene	<b>416</b>	ug/Kg	3/17/2020 06:02
Isophorone	< 266	ug/Kg	3/17/2020 06:02
Naphthalene	< 266	ug/Kg	3/17/2020 06:02

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





Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-2 0.5-1.5 FT

Lab Sample ID: 201123-02

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

Nitrobenzene	< 266	ug/Kg	3/17/2020	06:02
N-Nitroso-di-n-propylamine	< 266	ug/Kg	3/17/2020	06:02
N-Nitrosodiphenylamine	< 266	ug/Kg	3/17/2020	06:02
Pentachlorophenol	< 532	ug/Kg	3/17/2020	06:02
Phenanthrene	< 266	ug/Kg	3/17/2020	06:02
Phenol	< 266	ug/Kg	3/17/2020	06:02
Pyrene	<b>600</b>	ug/Kg	3/17/2020	06:02

<b>Surrogate</b>	<b>Percent Recovery</b>	<b>Limits</b>	<b>Outliers</b>	<b>Date Analyzed</b>
2,4,6-Tribromophenol	<b>74.6</b>	35.1 - 89.5		3/17/2020 06:02
2-Fluorobiphenyl	<b>76.9</b>	37.7 - 81.4		3/17/2020 06:02
2-Fluorophenol	<b>71.3</b>	40.2 - 77		3/17/2020 06:02
Nitrobenzene-d5	<b>74.5</b>	36.2 - 78.4		3/17/2020 06:02
Phenol-d5	<b>74.1</b>	41.2 - 77.1		3/17/2020 06:02
Terphenyl-d14	<b>79.7</b>	39.8 - 97.5		3/17/2020 06:02

Method Reference(s): EPA 8270D  
 EPA 3546  
 Preparation Date: 3/16/2020  
 Data File: B45117.D



Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-3 1.0-3.5 FT

Lab Sample ID: 201123-03

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

**Part 375 Metals (ICP)**

<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>Qualifier</b>	<b>Date Analyzed</b>
Arsenic	6.82	mg/Kg		3/23/2020 21:51
Barium	75.2	mg/Kg		3/23/2020 21:51
Beryllium	< 0.297	mg/Kg		3/23/2020 21:51
Cadmium	0.819	mg/Kg		3/23/2020 21:51
Chromium	14.2	mg/Kg		3/23/2020 21:51
Copper	18.0	mg/Kg		3/23/2020 21:51
Lead	168	mg/Kg		3/23/2020 21:51
Manganese	372	mg/Kg		3/23/2020 21:51
Nickel	11.4	mg/Kg		3/23/2020 21:51
Selenium	1.79	mg/Kg		3/23/2020 21:51
Silver	0.960	mg/Kg		3/23/2020 21:51
Zinc	111	mg/Kg		3/23/2020 21:51

Method Reference(s): EPA 6010C

EPA 3050B

Preparation Date: 3/23/2020

Data File: 200323B

**Mercury**

<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>Qualifier</b>	<b>Date Analyzed</b>
Mercury	0.236	mg/Kg		3/18/2020 12:21

Method Reference(s): EPA 7471B

Preparation Date: 3/17/2020

Data File: Hg200318A

**Semi-Volatile Organics (Acid/Base Neutrals)**

<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>Qualifier</b>	<b>Date Analyzed</b>
1,1-Biphenyl	< 360	ug/Kg		3/17/2020 06:32
1,2,4,5-Tetrachlorobenzene	< 360	ug/Kg		3/17/2020 06:32
1,2,4-Trichlorobenzene	< 360	ug/Kg		3/17/2020 06:32
1,2-Dichlorobenzene	< 360	ug/Kg		3/17/2020 06:32

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



Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-3 1.0-3.5 FT

Lab Sample ID: 201123-03

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

1,3-Dichlorobenzene	< 360	ug/Kg	3/17/2020 06:32
1,4-Dichlorobenzene	< 360	ug/Kg	3/17/2020 06:32
2,2-Oxybis (1-chloropropane)	< 360	ug/Kg	3/17/2020 06:32
2,3,4,6-Tetrachlorophenol	< 360	ug/Kg	3/17/2020 06:32
2,4,5-Trichlorophenol	< 360	ug/Kg	3/17/2020 06:32
2,4,6-Trichlorophenol	< 360	ug/Kg	3/17/2020 06:32
2,4-Dichlorophenol	< 360	ug/Kg	3/17/2020 06:32
2,4-Dimethylphenol	< 360	ug/Kg	3/17/2020 06:32
2,4-Dinitrophenol	< 1440	ug/Kg	3/17/2020 06:32
2,4-Dinitrotoluene	< 360	ug/Kg	3/17/2020 06:32
2,6-Dinitrotoluene	< 360	ug/Kg	3/17/2020 06:32
2-Chloronaphthalene	< 360	ug/Kg	3/17/2020 06:32
2-Chlorophenol	< 360	ug/Kg	3/17/2020 06:32
2-Methylnaphthalene	< 360	ug/Kg	3/17/2020 06:32
2-Methylphenol	< 360	ug/Kg	3/17/2020 06:32
2-Nitroaniline	< 360	ug/Kg	3/17/2020 06:32
2-Nitrophenol	< 360	ug/Kg	3/17/2020 06:32
3&4-Methylphenol	< 360	ug/Kg	3/17/2020 06:32
3,3'-Dichlorobenzidine	< 360	ug/Kg	3/17/2020 06:32
3-Nitroaniline	< 360	ug/Kg	3/17/2020 06:32
4,6-Dinitro-2-methylphenol	< 481	ug/Kg	3/17/2020 06:32
4-Bromophenyl phenyl ether	< 360	ug/Kg	3/17/2020 06:32
4-Chloro-3-methylphenol	< 360	ug/Kg	3/17/2020 06:32
4-Chloroaniline	< 360	ug/Kg	3/17/2020 06:32
4-Chlorophenyl phenyl ether	< 360	ug/Kg	3/17/2020 06:32
4-Nitroaniline	< 360	ug/Kg	3/17/2020 06:32
4-Nitrophenol	< 360	ug/Kg	3/17/2020 06:32
Acenaphthene	< 360	ug/Kg	3/17/2020 06:32
Acenaphthylene	< 360	ug/Kg	3/17/2020 06:32
Acetophenone	< 360	ug/Kg	3/17/2020 06:32

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

Report Prepared Thursday, March 26, 2020





Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-3 1.0-3.5 FT

Lab Sample ID: 201123-03

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

Anthracene	452	ug/Kg	3/17/2020 06:32
Atrazine	< 360	ug/Kg	3/17/2020 06:32
Benzaldehyde	< 360	ug/Kg	3/17/2020 06:32
Benzo (a) anthracene	1290	ug/Kg	3/17/2020 06:32
Benzo (a) pyrene	1160	ug/Kg	3/17/2020 06:32
Benzo (b) fluoranthene	1110	ug/Kg	3/17/2020 06:32
Benzo (g,h,i) perylene	655	ug/Kg	3/17/2020 06:32
Benzo (k) fluoranthene	812	ug/Kg	3/17/2020 06:32
Bis (2-chloroethoxy) methane	< 360	ug/Kg	3/17/2020 06:32
Bis (2-chloroethyl) ether	< 360	ug/Kg	3/17/2020 06:32
Bis (2-ethylhexyl) phthalate	< 360	ug/Kg	3/17/2020 06:32
Butylbenzylphthalate	< 360	ug/Kg	3/17/2020 06:32
Caprolactam	< 360	ug/Kg	3/17/2020 06:32
Carbazole	< 360	ug/Kg	3/17/2020 06:32
Chrysene	1240	ug/Kg	3/17/2020 06:32
Dibenz (a,h) anthracene	< 360	ug/Kg	3/17/2020 06:32
Dibenzofuran	< 360	ug/Kg	3/17/2020 06:32
Diethyl phthalate	< 360	ug/Kg	3/17/2020 06:32
Dimethyl phthalate	< 360	ug/Kg	3/17/2020 06:32
Di-n-butyl phthalate	< 360	ug/Kg	3/17/2020 06:32
Di-n-octylphthalate	< 360	ug/Kg	3/17/2020 06:32
Fluoranthene	2910	ug/Kg	3/17/2020 06:32
Fluorene	< 360	ug/Kg	3/17/2020 06:32
Hexachlorobenzene	< 360	ug/Kg	3/17/2020 06:32
Hexachlorobutadiene	< 360	ug/Kg	3/17/2020 06:32
Hexachlorocyclopentadiene	< 1440	ug/Kg	3/17/2020 06:32
Hexachloroethane	< 360	ug/Kg	3/17/2020 06:32
Indeno (1,2,3-cd) pyrene	608	ug/Kg	3/17/2020 06:32
Isophorone	< 360	ug/Kg	3/17/2020 06:32
Naphthalene	< 360	ug/Kg	3/17/2020 06:32

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



**Client:** BE3

**Project Reference:** 1100 Michigan Pilgrim Village

**Sample Identifier:** BH-3 1.0-3.5 FT

**Lab Sample ID:** 201123-03

**Date Sampled:** 3/12/2020

**Matrix:** Soil

**Date Received:** 3/13/2020

Nitrobenzene	< 360	ug/Kg	3/17/2020	06:32
N-Nitroso-di-n-propylamine	< 360	ug/Kg	3/17/2020	06:32
N-Nitrosodiphenylamine	< 360	ug/Kg	3/17/2020	06:32
Pentachlorophenol	< 719	ug/Kg	3/17/2020	06:32
Phenanthrene	<b>2360</b>	ug/Kg	3/17/2020	06:32
Phenol	< 360	ug/Kg	3/17/2020	06:32
Pyrene	<b>2290</b>	ug/Kg	3/17/2020	06:32

<b>Surrogate</b>	<b>Percent Recovery</b>	<b>Limits</b>	<b>Outliers</b>	<b>Date Analyzed</b>
2,4,6-Tribromophenol	<b>75.4</b>	35.1 - 89.5		3/17/2020 06:32
2-Fluorobiphenyl	<b>73.2</b>	37.7 - 81.4		3/17/2020 06:32
2-Fluorophenol	<b>66.9</b>	40.2 - 77		3/17/2020 06:32
Nitrobenzene-d5	<b>70.0</b>	36.2 - 78.4		3/17/2020 06:32
Phenol-d5	<b>70.0</b>	41.2 - 77.1		3/17/2020 06:32
Terphenyl-d14	<b>77.0</b>	39.8 - 97.5		3/17/2020 06:32

**Method Reference(s):** EPA 8270D  
EPA 3546  
**Preparation Date:** 3/16/2020  
**Data File:** B45118.D

**Client:** BE3  
**Project Reference:** 1100 Michigan Pilgrim Village

**Sample Identifier:** BH-4 1.0-3.5 FT  
**Lab Sample ID:** 201123-04  
**Matrix:** Soil

**Date Sampled:** 3/12/2020  
**Date Received:** 3/13/2020

### Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	6.09	mg/Kg		3/23/2020 22:05
Barium	106	mg/Kg		3/23/2020 22:05
Beryllium	< 0.277	mg/Kg		3/23/2020 22:05
Cadmium	0.683	mg/Kg		3/23/2020 22:05
Chromium	13.1	mg/Kg		3/23/2020 22:05
Copper	17.8	mg/Kg		3/23/2020 22:05
Lead	333	mg/Kg		3/23/2020 22:05
Manganese	238	mg/Kg		3/23/2020 22:05
Nickel	11.2	mg/Kg		3/23/2020 22:05
Selenium	< 1.11	mg/Kg		3/23/2020 22:05
Silver	0.693	mg/Kg		3/23/2020 22:05
Zinc	148	mg/Kg		3/23/2020 22:05

**Method Reference(s):** EPA 6010C  
 EPA 3050B  
**Preparation Date:** 3/23/2020  
**Data File:** 200323B

### Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.274	mg/Kg		3/18/2020 12:23

**Method Reference(s):** EPA 7471B  
**Preparation Date:** 3/17/2020  
**Data File:** Hg200318A

### Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 323	ug/Kg		3/17/2020 07:01
1,2,4,5-Tetrachlorobenzene	< 323	ug/Kg		3/17/2020 07:01
1,2,4-Trichlorobenzene	< 323	ug/Kg		3/17/2020 07:01
1,2-Dichlorobenzene	< 323	ug/Kg		3/17/2020 07:01

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





Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-4 1.0-3.5 FT

Lab Sample ID: 201123-04

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

1,3-Dichlorobenzene	< 323	ug/Kg	3/17/2020 07:01
1,4-Dichlorobenzene	< 323	ug/Kg	3/17/2020 07:01
2,2-Oxybis (1-chloropropane)	< 323	ug/Kg	3/17/2020 07:01
2,3,4,6-Tetrachlorophenol	< 323	ug/Kg	3/17/2020 07:01
2,4,5-Trichlorophenol	< 323	ug/Kg	3/17/2020 07:01
2,4,6-Trichlorophenol	< 323	ug/Kg	3/17/2020 07:01
2,4-Dichlorophenol	< 323	ug/Kg	3/17/2020 07:01
2,4-Dimethylphenol	< 323	ug/Kg	3/17/2020 07:01
2,4-Dinitrophenol	< 1290	ug/Kg	3/17/2020 07:01
2,4-Dinitrotoluene	< 323	ug/Kg	3/17/2020 07:01
2,6-Dinitrotoluene	< 323	ug/Kg	3/17/2020 07:01
2-Chloronaphthalene	< 323	ug/Kg	3/17/2020 07:01
2-Chlorophenol	< 323	ug/Kg	3/17/2020 07:01
2-Methylnaphthalene	< 323	ug/Kg	3/17/2020 07:01
2-Methylphenol	< 323	ug/Kg	3/17/2020 07:01
2-Nitroaniline	< 323	ug/Kg	3/17/2020 07:01
2-Nitrophenol	< 323	ug/Kg	3/17/2020 07:01
3&4-Methylphenol	< 323	ug/Kg	3/17/2020 07:01
3,3'-Dichlorobenzidine	< 323	ug/Kg	3/17/2020 07:01
3-Nitroaniline	< 323	ug/Kg	3/17/2020 07:01
4,6-Dinitro-2-methylphenol	< 432	ug/Kg	3/17/2020 07:01
4-Bromophenyl phenyl ether	< 323	ug/Kg	3/17/2020 07:01
4-Chloro-3-methylphenol	< 323	ug/Kg	3/17/2020 07:01
4-Chloroaniline	< 323	ug/Kg	3/17/2020 07:01
4-Chlorophenyl phenyl ether	< 323	ug/Kg	3/17/2020 07:01
4-Nitroaniline	< 323	ug/Kg	3/17/2020 07:01
4-Nitrophenol	< 323	ug/Kg	3/17/2020 07:01
Acenaphthene	< 323	ug/Kg	3/17/2020 07:01
Acenaphthylene	< 323	ug/Kg	3/17/2020 07:01
Acetophenone	< 323	ug/Kg	3/17/2020 07:01

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

Report Prepared Thursday, March 26, 2020



Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-4 1.0-3.5 FT

Lab Sample ID: 201123-04

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

Anthracene	< 323	ug/Kg	3/17/2020 07:01
Atrazine	< 323	ug/Kg	3/17/2020 07:01
Benzaldehyde	< 323	ug/Kg	3/17/2020 07:01
Benzo (a) anthracene	< 323	ug/Kg	3/17/2020 07:01
Benzo (a) pyrene	< 323	ug/Kg	3/17/2020 07:01
Benzo (b) fluoranthene	< 323	ug/Kg	3/17/2020 07:01
Benzo (g,h,i) perylene	< 323	ug/Kg	3/17/2020 07:01
Benzo (k) fluoranthene	< 323	ug/Kg	3/17/2020 07:01
Bis (2-chloroethoxy) methane	< 323	ug/Kg	3/17/2020 07:01
Bis (2-chloroethyl) ether	< 323	ug/Kg	3/17/2020 07:01
Bis (2-ethylhexyl) phthalate	< 323	ug/Kg	3/17/2020 07:01
Butylbenzylphthalate	< 323	ug/Kg	3/17/2020 07:01
Caprolactam	< 323	ug/Kg	3/17/2020 07:01
Carbazole	< 323	ug/Kg	3/17/2020 07:01
Chrysene	< 323	ug/Kg	3/17/2020 07:01
Dibenz (a,h) anthracene	< 323	ug/Kg	3/17/2020 07:01
Dibenzofuran	< 323	ug/Kg	3/17/2020 07:01
Diethyl phthalate	< 323	ug/Kg	3/17/2020 07:01
Dimethyl phthalate	< 323	ug/Kg	3/17/2020 07:01
Di-n-butyl phthalate	< 323	ug/Kg	3/17/2020 07:01
Di-n-octylphthalate	< 323	ug/Kg	3/17/2020 07:01
Fluoranthene	< 323	ug/Kg	3/17/2020 07:01
Fluorene	< 323	ug/Kg	3/17/2020 07:01
Hexachlorobenzene	< 323	ug/Kg	3/17/2020 07:01
Hexachlorobutadiene	< 323	ug/Kg	3/17/2020 07:01
Hexachlorocyclopentadiene	< 1290	ug/Kg	3/17/2020 07:01
Hexachloroethane	< 323	ug/Kg	3/17/2020 07:01
Indeno (1,2,3-cd) pyrene	< 323	ug/Kg	3/17/2020 07:01
Isophorone	< 323	ug/Kg	3/17/2020 07:01
Naphthalene	< 323	ug/Kg	3/17/2020 07:01

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

Report Prepared Thursday, March 26, 2020



Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-4 1.0-3.5 FT

Lab Sample ID: 201123-04

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

Nitrobenzene	< 323	ug/Kg	3/17/2020 07:01
N-Nitroso-di-n-propylamine	< 323	ug/Kg	3/17/2020 07:01
N-Nitrosodiphenylamine	< 323	ug/Kg	3/17/2020 07:01
Pentachlorophenol	< 646	ug/Kg	3/17/2020 07:01
Phenanthrene	< 323	ug/Kg	3/17/2020 07:01
Phenol	< 323	ug/Kg	3/17/2020 07:01
Pyrene	< 323	ug/Kg	3/17/2020 07:01

<b>Surrogate</b>	<b>Percent Recovery</b>	<b>Limits</b>	<b>Outliers</b>	<b>Date Analyzed</b>
2,4,6-Tribromophenol	<b>74.3</b>	35.1 - 89.5		3/17/2020 07:01
2-Fluorobiphenyl	<b>71.1</b>	37.7 - 81.4		3/17/2020 07:01
2-Fluorophenol	<b>64.8</b>	40.2 - 77		3/17/2020 07:01
Nitrobenzene-d5	<b>69.9</b>	36.2 - 78.4		3/17/2020 07:01
Phenol-d5	<b>69.3</b>	41.2 - 77.1		3/17/2020 07:01
Terphenyl-d14	<b>78.5</b>	39.8 - 97.5		3/17/2020 07:01

Method Reference(s): EPA 8270D  
 EPA 3546  
 Preparation Date: 3/16/2020  
 Data File: B45119.D





Lab Project ID: 201123

Client: **BE3**  
Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-5 1-2 FT  
Lab Sample ID: 201123-05  
Matrix: Soil

Date Sampled: 3/12/2020  
Date Received: 3/13/2020

**Part 375 Metals (ICP)**

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	5.49	mg/Kg		3/23/2020 22:10
Barium	112	mg/Kg		3/23/2020 22:10
Beryllium	< 0.284	mg/Kg		3/23/2020 22:10
Cadmium	1.05	mg/Kg		3/23/2020 22:10
Chromium	15.0	mg/Kg		3/23/2020 22:10
Copper	21.9	mg/Kg		3/23/2020 22:10
Lead	256	mg/Kg		3/23/2020 22:10
Manganese	510	mg/Kg		3/23/2020 22:10
Nickel	11.5	mg/Kg		3/23/2020 22:10
Selenium	2.22	mg/Kg		3/23/2020 22:10
Silver	0.767	mg/Kg		3/23/2020 22:10
Zinc	173	mg/Kg		3/23/2020 22:10

Method Reference(s): EPA 6010C  
EPA 3050B  
Preparation Date: 3/23/2020  
Data File: 200323B

**Mercury**

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.364	mg/Kg		3/18/2020 12:25

Method Reference(s): EPA 7471B  
Preparation Date: 3/17/2020  
Data File: Hg200318A

**Semi-Volatile Organics (Acid/Base Neutrals)**

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 313	ug/Kg		3/17/2020 07:30
1,2,4,5-Tetrachlorobenzene	< 313	ug/Kg		3/17/2020 07:30
1,2,4-Trichlorobenzene	< 313	ug/Kg		3/17/2020 07:30
1,2-Dichlorobenzene	< 313	ug/Kg		3/17/2020 07:30

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



Lab Project ID: 201123

**Client:** BE3  
**Project Reference:** 1100 Michigan Pilgrim Village

---

<b>Sample Identifier:</b>	BH-5 1-2 FT		
<b>Lab Sample ID:</b>	201123-05	<b>Date Sampled:</b>	3/12/2020
<b>Matrix:</b>	Soil	<b>Date Received:</b>	3/13/2020

---

1,3-Dichlorobenzene	< 313	ug/Kg	3/17/2020 07:30
1,4-Dichlorobenzene	< 313	ug/Kg	3/17/2020 07:30
2,2-Oxybis (1-chloropropane)	< 313	ug/Kg	3/17/2020 07:30
2,3,4,6-Tetrachlorophenol	< 313	ug/Kg	3/17/2020 07:30
2,4,5-Trichlorophenol	< 313	ug/Kg	3/17/2020 07:30
2,4,6-Trichlorophenol	< 313	ug/Kg	3/17/2020 07:30
2,4-Dichlorophenol	< 313	ug/Kg	3/17/2020 07:30
2,4-Dimethylphenol	< 313	ug/Kg	3/17/2020 07:30
2,4-Dinitrophenol	< 1250	ug/Kg	3/17/2020 07:30
2,4-Dinitrotoluene	< 313	ug/Kg	3/17/2020 07:30
2,6-Dinitrotoluene	< 313	ug/Kg	3/17/2020 07:30
2-Chloronaphthalene	< 313	ug/Kg	3/17/2020 07:30
2-Chlorophenol	< 313	ug/Kg	3/17/2020 07:30
2-Methylnaphthalene	<b>314</b>	ug/Kg	3/17/2020 07:30
2-Methylphenol	< 313	ug/Kg	3/17/2020 07:30
2-Nitroaniline	< 313	ug/Kg	3/17/2020 07:30
2-Nitrophenol	< 313	ug/Kg	3/17/2020 07:30
3&4-Methylphenol	< 313	ug/Kg	3/17/2020 07:30
3,3'-Dichlorobenzidine	< 313	ug/Kg	3/17/2020 07:30
3-Nitroaniline	< 313	ug/Kg	3/17/2020 07:30
4,6-Dinitro-2-methylphenol	< 418	ug/Kg	3/17/2020 07:30
4-Bromophenyl phenyl ether	< 313	ug/Kg	3/17/2020 07:30
4-Chloro-3-methylphenol	< 313	ug/Kg	3/17/2020 07:30
4-Chloroaniline	< 313	ug/Kg	3/17/2020 07:30
4-Chlorophenyl phenyl ether	< 313	ug/Kg	3/17/2020 07:30
4-Nitroaniline	< 313	ug/Kg	3/17/2020 07:30
4-Nitrophenol	< 313	ug/Kg	3/17/2020 07:30
Acenaphthene	<b>702</b>	ug/Kg	3/17/2020 07:30
Acenaphthylene	< 313	ug/Kg	3/17/2020 07:30
Acetophenone	< 313	ug/Kg	3/17/2020 07:30

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



Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-5 1-2 FT

Lab Sample ID: 201123-05

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

Anthracene	1640	ug/Kg	3/17/2020 07:30
Atrazine	< 313	ug/Kg	3/17/2020 07:30
Benzaldehyde	< 313	ug/Kg	3/17/2020 07:30
Benzo (a) anthracene	2820	ug/Kg	3/17/2020 07:30
Benzo (a) pyrene	2390	ug/Kg	3/17/2020 07:30
Benzo (b) fluoranthene	2250	ug/Kg	3/17/2020 07:30
Benzo (g,h,i) perylene	1360	ug/Kg	3/17/2020 07:30
Benzo (k) fluoranthene	1710	ug/Kg	3/17/2020 07:30
Bis (2-chloroethoxy) methane	< 313	ug/Kg	3/17/2020 07:30
Bis (2-chloroethyl) ether	< 313	ug/Kg	3/17/2020 07:30
Bis (2-ethylhexyl) phthalate	< 313	ug/Kg	3/17/2020 07:30
Butylbenzylphthalate	< 313	ug/Kg	3/17/2020 07:30
Caprolactam	< 313	ug/Kg	3/17/2020 07:30
Carbazole	929	ug/Kg	3/17/2020 07:30
Chrysene	2560	ug/Kg	3/17/2020 07:30
Dibenz (a,h) anthracene	494	ug/Kg	3/17/2020 07:30
Dibenzofuran	591	ug/Kg	3/17/2020 07:30
Diethyl phthalate	< 313	ug/Kg	3/17/2020 07:30
Dimethyl phthalate	< 313	ug/Kg	3/17/2020 07:30
Di-n-butyl phthalate	< 313	ug/Kg	3/17/2020 07:30
Di-n-octylphthalate	< 313	ug/Kg	3/17/2020 07:30
Fluoranthene	5560	ug/Kg	3/17/2020 07:30
Fluorene	878	ug/Kg	3/17/2020 07:30
Hexachlorobenzene	< 313	ug/Kg	3/17/2020 07:30
Hexachlorobutadiene	< 313	ug/Kg	3/17/2020 07:30
Hexachlorocyclopentadiene	< 1250	ug/Kg	3/17/2020 07:30
Hexachloroethane	< 313	ug/Kg	3/17/2020 07:30
Indeno (1,2,3-cd) pyrene	1270	ug/Kg	3/17/2020 07:30
Isophorone	< 313	ug/Kg	3/17/2020 07:30
Naphthalene	893	ug/Kg	3/17/2020 07:30

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





Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-5 1-2 FT

Lab Sample ID: 201123-05

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

Nitrobenzene	< 313	ug/Kg	3/17/2020	07:30
N-Nitroso-di-n-propylamine	< 313	ug/Kg	3/17/2020	07:30
N-Nitrosodiphenylamine	< 313	ug/Kg	3/17/2020	07:30
Pentachlorophenol	< 625	ug/Kg	3/17/2020	07:30
Phenanthrene	<b>5450</b>	ug/Kg	3/17/2020	07:30
Phenol	< 313	ug/Kg	3/17/2020	07:30
Pyrene	<b>4590</b>	ug/Kg	3/17/2020	07:30

<b>Surrogate</b>	<b>Percent Recovery</b>	<b>Limits</b>	<b>Outliers</b>	<b>Date Analyzed</b>
2,4,6-Tribromophenol	<b>75.1</b>	35.1 - 89.5		3/17/2020 07:30
2-Fluorobiphenyl	<b>71.2</b>	37.7 - 81.4		3/17/2020 07:30
2-Fluorophenol	<b>65.7</b>	40.2 - 77		3/17/2020 07:30
Nitrobenzene-d5	<b>69.6</b>	36.2 - 78.4		3/17/2020 07:30
Phenol-d5	<b>69.2</b>	41.2 - 77.1		3/17/2020 07:30
Terphenyl-d14	<b>76.7</b>	39.8 - 97.5		3/17/2020 07:30

Method Reference(s): EPA 8270D  
 EPA 3546  
 Preparation Date: 3/16/2020  
 Data File: B45120.D



Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-6 1-2.5 FT

Lab Sample ID: 201123-06

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

**Part 375 Metals (ICP)**

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	7.42	mg/Kg		3/23/2020 22:14
Barium	234	mg/Kg		3/23/2020 22:14
Beryllium	< 0.297	mg/Kg		3/23/2020 22:14
Cadmium	1.02	mg/Kg		3/23/2020 22:14
Chromium	17.6	mg/Kg		3/23/2020 22:14
Copper	29.6	mg/Kg		3/23/2020 22:14
Lead	1370	mg/Kg		3/23/2020 22:14
Manganese	252	mg/Kg		3/23/2020 22:14
Nickel	13.3	mg/Kg		3/23/2020 22:14
Selenium	2.16	mg/Kg		3/23/2020 22:14
Silver	0.762	mg/Kg		3/23/2020 22:14
Zinc	213	mg/Kg		3/23/2020 22:14

Method Reference(s): EPA 6010C  
EPA 3050B  
Preparation Date: 3/23/2020  
Data File: 200323B

**Mercury**

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.660	mg/Kg		3/18/2020 13:30

Method Reference(s): EPA 7471B  
Preparation Date: 3/17/2020  
Data File: Hg200318A

**Semi-Volatile Organics (Acid/Base Neutrals)**

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 342	ug/Kg		3/17/2020 08:00
1,2,4,5-Tetrachlorobenzene	< 342	ug/Kg		3/17/2020 08:00
1,2,4-Trichlorobenzene	< 342	ug/Kg		3/17/2020 08:00
1,2-Dichlorobenzene	< 342	ug/Kg		3/17/2020 08:00

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



Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-6 1-2.5 FT

Lab Sample ID: 201123-06

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

1,3-Dichlorobenzene	< 342	ug/Kg	3/17/2020 08:00
1,4-Dichlorobenzene	< 342	ug/Kg	3/17/2020 08:00
2,2-Oxybis (1-chloropropane)	< 342	ug/Kg	3/17/2020 08:00
2,3,4,6-Tetrachlorophenol	< 342	ug/Kg	3/17/2020 08:00
2,4,5-Trichlorophenol	< 342	ug/Kg	3/17/2020 08:00
2,4,6-Trichlorophenol	< 342	ug/Kg	3/17/2020 08:00
2,4-Dichlorophenol	< 342	ug/Kg	3/17/2020 08:00
2,4-Dimethylphenol	< 342	ug/Kg	3/17/2020 08:00
2,4-Dinitrophenol	< 1370	ug/Kg	3/17/2020 08:00
2,4-Dinitrotoluene	< 342	ug/Kg	3/17/2020 08:00
2,6-Dinitrotoluene	< 342	ug/Kg	3/17/2020 08:00
2-Chloronaphthalene	< 342	ug/Kg	3/17/2020 08:00
2-Chlorophenol	< 342	ug/Kg	3/17/2020 08:00
2-Methylnaphthalene	< 342	ug/Kg	3/17/2020 08:00
2-Methylphenol	< 342	ug/Kg	3/17/2020 08:00
2-Nitroaniline	< 342	ug/Kg	3/17/2020 08:00
2-Nitrophenol	< 342	ug/Kg	3/17/2020 08:00
3&4-Methylphenol	< 342	ug/Kg	3/17/2020 08:00
3,3'-Dichlorobenzidine	< 342	ug/Kg	3/17/2020 08:00
3-Nitroaniline	< 342	ug/Kg	3/17/2020 08:00
4,6-Dinitro-2-methylphenol	< 458	ug/Kg	3/17/2020 08:00
4-Bromophenyl phenyl ether	< 342	ug/Kg	3/17/2020 08:00
4-Chloro-3-methylphenol	< 342	ug/Kg	3/17/2020 08:00
4-Chloroaniline	< 342	ug/Kg	3/17/2020 08:00
4-Chlorophenyl phenyl ether	< 342	ug/Kg	3/17/2020 08:00
4-Nitroaniline	< 342	ug/Kg	3/17/2020 08:00
4-Nitrophenol	< 342	ug/Kg	3/17/2020 08:00
Acenaphthene	< 342	ug/Kg	3/17/2020 08:00
Acenaphthylene	< 342	ug/Kg	3/17/2020 08:00
Acetophenone	< 342	ug/Kg	3/17/2020 08:00

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





Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-6 1-2.5 FT

Lab Sample ID: 201123-06

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

Anthracene	< 342	ug/Kg	3/17/2020 08:00
Atrazine	< 342	ug/Kg	3/17/2020 08:00
Benzaldehyde	< 342	ug/Kg	3/17/2020 08:00
Benzo (a) anthracene	< 342	ug/Kg	3/17/2020 08:00
Benzo (a) pyrene	< 342	ug/Kg	3/17/2020 08:00
Benzo (b) fluoranthene	< 342	ug/Kg	3/17/2020 08:00
Benzo (g,h,i) perylene	< 342	ug/Kg	3/17/2020 08:00
Benzo (k) fluoranthene	< 342	ug/Kg	3/17/2020 08:00
Bis (2-chloroethoxy) methane	< 342	ug/Kg	3/17/2020 08:00
Bis (2-chloroethyl) ether	< 342	ug/Kg	3/17/2020 08:00
Bis (2-ethylhexyl) phthalate	< 342	ug/Kg	3/17/2020 08:00
Butylbenzylphthalate	< 342	ug/Kg	3/17/2020 08:00
Caprolactam	< 342	ug/Kg	3/17/2020 08:00
Carbazole	< 342	ug/Kg	3/17/2020 08:00
Chrysene	< 342	ug/Kg	3/17/2020 08:00
Dibenz (a,h) anthracene	< 342	ug/Kg	3/17/2020 08:00
Dibenzofuran	< 342	ug/Kg	3/17/2020 08:00
Diethyl phthalate	< 342	ug/Kg	3/17/2020 08:00
Dimethyl phthalate	< 342	ug/Kg	3/17/2020 08:00
Di-n-butyl phthalate	< 342	ug/Kg	3/17/2020 08:00
Di-n-octylphthalate	< 342	ug/Kg	3/17/2020 08:00
Fluoranthene	< 342	ug/Kg	3/17/2020 08:00
Fluorene	< 342	ug/Kg	3/17/2020 08:00
Hexachlorobenzene	< 342	ug/Kg	3/17/2020 08:00
Hexachlorobutadiene	< 342	ug/Kg	3/17/2020 08:00
Hexachlorocyclopentadiene	< 1370	ug/Kg	3/17/2020 08:00
Hexachloroethane	< 342	ug/Kg	3/17/2020 08:00
Indeno (1,2,3-cd) pyrene	< 342	ug/Kg	3/17/2020 08:00
Isophorone	< 342	ug/Kg	3/17/2020 08:00
Naphthalene	< 342	ug/Kg	3/17/2020 08:00

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



Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-6 1-2.5 FT

Lab Sample ID: 201123-06

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

Nitrobenzene	< 342	ug/Kg	3/17/2020 08:00
N-Nitroso-di-n-propylamine	< 342	ug/Kg	3/17/2020 08:00
N-Nitrosodiphenylamine	< 342	ug/Kg	3/17/2020 08:00
Pentachlorophenol	< 684	ug/Kg	3/17/2020 08:00
Phenanthrene	< 342	ug/Kg	3/17/2020 08:00
Phenol	< 342	ug/Kg	3/17/2020 08:00
Pyrene	< 342	ug/Kg	3/17/2020 08:00

<b>Surrogate</b>	<b>Percent Recovery</b>	<b>Limits</b>	<b>Outliers</b>	<b>Date Analyzed</b>
2,4,6-Tribromophenol	<b>74.8</b>	35.1 - 89.5		3/17/2020 08:00
2-Fluorobiphenyl	<b>70.1</b>	37.7 - 81.4		3/17/2020 08:00
2-Fluorophenol	<b>64.1</b>	40.2 - 77		3/17/2020 08:00
Nitrobenzene-d5	<b>67.7</b>	36.2 - 78.4		3/17/2020 08:00
Phenol-d5	<b>67.3</b>	41.2 - 77.1		3/17/2020 08:00
Terphenyl-d14	<b>74.6</b>	39.8 - 97.5		3/17/2020 08:00

Method Reference(s): EPA 8270D  
 EPA 3546  
 Preparation Date: 3/16/2020  
 Data File: B45121.D



Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-8 1-2.5 FT

Lab Sample ID: 201123-07

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

**Part 375 Metals (ICP)**

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	4.22	mg/Kg		3/23/2020 22:18
Barium	128	mg/Kg		3/23/2020 22:18
Beryllium	< 0.292	mg/Kg		3/23/2020 22:18
Cadmium	0.575	mg/Kg		3/23/2020 22:18
Chromium	13.1	mg/Kg		3/23/2020 22:18
Copper	21.7	mg/Kg		3/23/2020 22:18
Lead	397	mg/Kg		3/23/2020 22:18
Manganese	360	mg/Kg		3/23/2020 22:18
Nickel	7.30	mg/Kg		3/23/2020 22:18
Selenium	2.18	mg/Kg		3/23/2020 22:18
Silver	0.663	mg/Kg		3/23/2020 22:18
Zinc	199	mg/Kg		3/23/2020 22:18

Method Reference(s): EPA 6010C  
EPA 3050B  
Preparation Date: 3/23/2020  
Data File: 200323B

**Mercury**

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	1.35	mg/Kg		3/18/2020 13:32

Method Reference(s): EPA 7471B  
Preparation Date: 3/17/2020  
Data File: Hg200318A

**Semi-Volatile Organics (Acid/Base Neutrals)**

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 335	ug/Kg		3/17/2020 08:29
1,2,4,5-Tetrachlorobenzene	< 335	ug/Kg		3/17/2020 08:29
1,2,4-Trichlorobenzene	< 335	ug/Kg		3/17/2020 08:29
1,2-Dichlorobenzene	< 335	ug/Kg		3/17/2020 08:29

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





Lab Project ID: 201123

**Client:** BE3  
**Project Reference:** 1100 Michigan Pilgrim Village

---

<b>Sample Identifier:</b>	BH-8 1-2.5 FT		
<b>Lab Sample ID:</b>	201123-07	<b>Date Sampled:</b>	3/12/2020
<b>Matrix:</b>	Soil	<b>Date Received:</b>	3/13/2020

---

1,3-Dichlorobenzene	< 335	ug/Kg	3/17/2020 08:29
1,4-Dichlorobenzene	< 335	ug/Kg	3/17/2020 08:29
2,2-Oxybis (1-chloropropane)	< 335	ug/Kg	3/17/2020 08:29
2,3,4,6-Tetrachlorophenol	< 335	ug/Kg	3/17/2020 08:29
2,4,5-Trichlorophenol	< 335	ug/Kg	3/17/2020 08:29
2,4,6-Trichlorophenol	< 335	ug/Kg	3/17/2020 08:29
2,4-Dichlorophenol	< 335	ug/Kg	3/17/2020 08:29
2,4-Dimethylphenol	< 335	ug/Kg	3/17/2020 08:29
2,4-Dinitrophenol	< 1340	ug/Kg	3/17/2020 08:29
2,4-Dinitrotoluene	< 335	ug/Kg	3/17/2020 08:29
2,6-Dinitrotoluene	< 335	ug/Kg	3/17/2020 08:29
2-Chloronaphthalene	< 335	ug/Kg	3/17/2020 08:29
2-Chlorophenol	< 335	ug/Kg	3/17/2020 08:29
2-Methylnaphthalene	< 335	ug/Kg	3/17/2020 08:29
2-Methylphenol	< 335	ug/Kg	3/17/2020 08:29
2-Nitroaniline	< 335	ug/Kg	3/17/2020 08:29
2-Nitrophenol	< 335	ug/Kg	3/17/2020 08:29
3&4-Methylphenol	< 335	ug/Kg	3/17/2020 08:29
3,3'-Dichlorobenzidine	< 335	ug/Kg	3/17/2020 08:29
3-Nitroaniline	< 335	ug/Kg	3/17/2020 08:29
4,6-Dinitro-2-methylphenol	< 448	ug/Kg	3/17/2020 08:29
4-Bromophenyl phenyl ether	< 335	ug/Kg	3/17/2020 08:29
4-Chloro-3-methylphenol	< 335	ug/Kg	3/17/2020 08:29
4-Chloroaniline	< 335	ug/Kg	3/17/2020 08:29
4-Chlorophenyl phenyl ether	< 335	ug/Kg	3/17/2020 08:29
4-Nitroaniline	< 335	ug/Kg	3/17/2020 08:29
4-Nitrophenol	< 335	ug/Kg	3/17/2020 08:29
Acenaphthene	< 335	ug/Kg	3/17/2020 08:29
Acenaphthylene	< 335	ug/Kg	3/17/2020 08:29
Acetophenone	< 335	ug/Kg	3/17/2020 08:29

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



Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-8 1-2.5 FT

Lab Sample ID: 201123-07

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

Anthracene	< 335	ug/Kg	3/17/2020 08:29
Atrazine	< 335	ug/Kg	3/17/2020 08:29
Benzaldehyde	< 335	ug/Kg	3/17/2020 08:29
Benzo (a) anthracene	< 335	ug/Kg	3/17/2020 08:29
Benzo (a) pyrene	< 335	ug/Kg	3/17/2020 08:29
Benzo (b) fluoranthene	< 335	ug/Kg	3/17/2020 08:29
Benzo (g,h,i) perylene	< 335	ug/Kg	3/17/2020 08:29
Benzo (k) fluoranthene	< 335	ug/Kg	3/17/2020 08:29
Bis (2-chloroethoxy) methane	< 335	ug/Kg	3/17/2020 08:29
Bis (2-chloroethyl) ether	< 335	ug/Kg	3/17/2020 08:29
Bis (2-ethylhexyl) phthalate	< 335	ug/Kg	3/17/2020 08:29
Butylbenzylphthalate	< 335	ug/Kg	3/17/2020 08:29
Caprolactam	< 335	ug/Kg	3/17/2020 08:29
Carbazole	< 335	ug/Kg	3/17/2020 08:29
Chrysene	< 335	ug/Kg	3/17/2020 08:29
Dibenz (a,h) anthracene	< 335	ug/Kg	3/17/2020 08:29
Dibenzofuran	< 335	ug/Kg	3/17/2020 08:29
Diethyl phthalate	< 335	ug/Kg	3/17/2020 08:29
Dimethyl phthalate	< 335	ug/Kg	3/17/2020 08:29
Di-n-butyl phthalate	< 335	ug/Kg	3/17/2020 08:29
Di-n-octylphthalate	< 335	ug/Kg	3/17/2020 08:29
Fluoranthene	<b>458</b>	ug/Kg	3/17/2020 08:29
Fluorene	< 335	ug/Kg	3/17/2020 08:29
Hexachlorobenzene	< 335	ug/Kg	3/17/2020 08:29
Hexachlorobutadiene	< 335	ug/Kg	3/17/2020 08:29
Hexachlorocyclopentadiene	< 1340	ug/Kg	3/17/2020 08:29
Hexachloroethane	< 335	ug/Kg	3/17/2020 08:29
Indeno (1,2,3-cd) pyrene	< 335	ug/Kg	3/17/2020 08:29
Isophorone	< 335	ug/Kg	3/17/2020 08:29
Naphthalene	< 335	ug/Kg	3/17/2020 08:29

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



Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-8 1-2.5 FT

Lab Sample ID: 201123-07

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

Nitrobenzene	< 335	ug/Kg	3/17/2020 08:29
N-Nitroso-di-n-propylamine	< 335	ug/Kg	3/17/2020 08:29
N-Nitrosodiphenylamine	< 335	ug/Kg	3/17/2020 08:29
Pentachlorophenol	< 669	ug/Kg	3/17/2020 08:29
Phenanthrene	< 335	ug/Kg	3/17/2020 08:29
Phenol	< 335	ug/Kg	3/17/2020 08:29
Pyrene	<b>426</b>	ug/Kg	3/17/2020 08:29

<b>Surrogate</b>	<b>Percent Recovery</b>	<b>Limits</b>	<b>Outliers</b>	<b>Date Analyzed</b>
2,4,6-Tribromophenol	<b>67.7</b>	35.1 - 89.5		3/17/2020 08:29
2-Fluorobiphenyl	<b>64.9</b>	37.7 - 81.4		3/17/2020 08:29
2-Fluorophenol	<b>58.2</b>	40.2 - 77		3/17/2020 08:29
Nitrobenzene-d5	<b>64.9</b>	36.2 - 78.4		3/17/2020 08:29
Phenol-d5	<b>61.9</b>	41.2 - 77.1		3/17/2020 08:29
Terphenyl-d14	<b>69.8</b>	39.8 - 97.5		3/17/2020 08:29

Method Reference(s): EPA 8270D  
 EPA 3546  
 Preparation Date: 3/16/2020  
 Data File: B45122.D



Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-10 0.5-2 FT

Lab Sample ID: 201123-08

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

**Part 375 Metals (ICP)**

<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>Qualifier</b>	<b>Date Analyzed</b>
Arsenic	2.94	mg/Kg		3/23/2020 22:23
Barium	75.9	mg/Kg		3/23/2020 22:23
Beryllium	< 0.312	mg/Kg		3/23/2020 22:23
Cadmium	0.615	mg/Kg		3/23/2020 22:23
Chromium	10.4	mg/Kg		3/23/2020 22:23
Copper	16.0	mg/Kg		3/23/2020 22:23
Lead	116	mg/Kg		3/23/2020 22:23
Manganese	482	mg/Kg		3/23/2020 22:23
Nickel	7.88	mg/Kg		3/23/2020 22:23
Selenium	2.73	mg/Kg		3/23/2020 22:23
Silver	0.764	mg/Kg		3/23/2020 22:23
Zinc	122	mg/Kg		3/23/2020 22:23

Method Reference(s): EPA 6010C

EPA 3050B

Preparation Date: 3/23/2020

Data File: 200323B

**Mercury**

<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>Qualifier</b>	<b>Date Analyzed</b>
Mercury	0.395	mg/Kg		3/18/2020 12:34

Method Reference(s): EPA 7471B

Preparation Date: 3/17/2020

Data File: Hg200318A

**Semi-Volatile Organics (Acid/Base Neutrals)**

<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>Qualifier</b>	<b>Date Analyzed</b>
1,1-Biphenyl	< 335	ug/Kg		3/17/2020 08:59
1,2,4,5-Tetrachlorobenzene	< 335	ug/Kg		3/17/2020 08:59
1,2,4-Trichlorobenzene	< 335	ug/Kg		3/17/2020 08:59
1,2-Dichlorobenzene	< 335	ug/Kg		3/17/2020 08:59

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



Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-10 0.5-2 FT

Lab Sample ID: 201123-08

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

1,3-Dichlorobenzene	< 335	ug/Kg	3/17/2020 08:59
1,4-Dichlorobenzene	< 335	ug/Kg	3/17/2020 08:59
2,2-Oxybis (1-chloropropane)	< 335	ug/Kg	3/17/2020 08:59
2,3,4,6-Tetrachlorophenol	< 335	ug/Kg	3/17/2020 08:59
2,4,5-Trichlorophenol	< 335	ug/Kg	3/17/2020 08:59
2,4,6-Trichlorophenol	< 335	ug/Kg	3/17/2020 08:59
2,4-Dichlorophenol	< 335	ug/Kg	3/17/2020 08:59
2,4-Dimethylphenol	< 335	ug/Kg	3/17/2020 08:59
2,4-Dinitrophenol	< 1340	ug/Kg	3/17/2020 08:59
2,4-Dinitrotoluene	< 335	ug/Kg	3/17/2020 08:59
2,6-Dinitrotoluene	< 335	ug/Kg	3/17/2020 08:59
2-Chloronaphthalene	< 335	ug/Kg	3/17/2020 08:59
2-Chlorophenol	< 335	ug/Kg	3/17/2020 08:59
2-Methylnaphthalene	< 335	ug/Kg	3/17/2020 08:59
2-Methylphenol	< 335	ug/Kg	3/17/2020 08:59
2-Nitroaniline	< 335	ug/Kg	3/17/2020 08:59
2-Nitrophenol	< 335	ug/Kg	3/17/2020 08:59
3&4-Methylphenol	< 335	ug/Kg	3/17/2020 08:59
3,3'-Dichlorobenzidine	< 335	ug/Kg	3/17/2020 08:59
3-Nitroaniline	< 335	ug/Kg	3/17/2020 08:59
4,6-Dinitro-2-methylphenol	< 448	ug/Kg	3/17/2020 08:59
4-Bromophenyl phenyl ether	< 335	ug/Kg	3/17/2020 08:59
4-Chloro-3-methylphenol	< 335	ug/Kg	3/17/2020 08:59
4-Chloroaniline	< 335	ug/Kg	3/17/2020 08:59
4-Chlorophenyl phenyl ether	< 335	ug/Kg	3/17/2020 08:59
4-Nitroaniline	< 335	ug/Kg	3/17/2020 08:59
4-Nitrophenol	< 335	ug/Kg	3/17/2020 08:59
Acenaphthene	< 335	ug/Kg	3/17/2020 08:59
Acenaphthylene	< 335	ug/Kg	3/17/2020 08:59
Acetophenone	< 335	ug/Kg	3/17/2020 08:59

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



Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-10 0.5-2 FT

Lab Sample ID: 201123-08

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

Anthracene	< 335	ug/Kg	3/17/2020 08:59
Atrazine	< 335	ug/Kg	3/17/2020 08:59
Benzaldehyde	< 335	ug/Kg	3/17/2020 08:59
Benzo (a) anthracene	< 335	ug/Kg	3/17/2020 08:59
Benzo (a) pyrene	< 335	ug/Kg	3/17/2020 08:59
Benzo (b) fluoranthene	< 335	ug/Kg	3/17/2020 08:59
Benzo (g,h,i) perylene	< 335	ug/Kg	3/17/2020 08:59
Benzo (k) fluoranthene	< 335	ug/Kg	3/17/2020 08:59
Bis (2-chloroethoxy) methane	< 335	ug/Kg	3/17/2020 08:59
Bis (2-chloroethyl) ether	< 335	ug/Kg	3/17/2020 08:59
Bis (2-ethylhexyl) phthalate	< 335	ug/Kg	3/17/2020 08:59
Butylbenzylphthalate	< 335	ug/Kg	3/17/2020 08:59
Caprolactam	< 335	ug/Kg	3/17/2020 08:59
Carbazole	< 335	ug/Kg	3/17/2020 08:59
Chrysene	< 335	ug/Kg	3/17/2020 08:59
Dibenz (a,h) anthracene	< 335	ug/Kg	3/17/2020 08:59
Dibenzofuran	< 335	ug/Kg	3/17/2020 08:59
Diethyl phthalate	< 335	ug/Kg	3/17/2020 08:59
Dimethyl phthalate	< 335	ug/Kg	3/17/2020 08:59
Di-n-butyl phthalate	< 335	ug/Kg	3/17/2020 08:59
Di-n-octylphthalate	< 335	ug/Kg	3/17/2020 08:59
Fluoranthene	< 335	ug/Kg	3/17/2020 08:59
Fluorene	< 335	ug/Kg	3/17/2020 08:59
Hexachlorobenzene	< 335	ug/Kg	3/17/2020 08:59
Hexachlorobutadiene	< 335	ug/Kg	3/17/2020 08:59
Hexachlorocyclopentadiene	< 1340	ug/Kg	3/17/2020 08:59
Hexachloroethane	< 335	ug/Kg	3/17/2020 08:59
Indeno (1,2,3-cd) pyrene	< 335	ug/Kg	3/17/2020 08:59
Isophorone	< 335	ug/Kg	3/17/2020 08:59
Naphthalene	< 335	ug/Kg	3/17/2020 08:59

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



**Client:** BE3

**Project Reference:** 1100 Michigan Pilgrim Village

**Sample Identifier:** BH-10 0.5-2 FT

**Lab Sample ID:** 201123-08

**Date Sampled:** 3/12/2020

**Matrix:** Soil

**Date Received:** 3/13/2020

Nitrobenzene	< 335	ug/Kg	3/17/2020 08:59
N-Nitroso-di-n-propylamine	< 335	ug/Kg	3/17/2020 08:59
N-Nitrosodiphenylamine	< 335	ug/Kg	3/17/2020 08:59
Pentachlorophenol	< 670	ug/Kg	3/17/2020 08:59
Phenanthrene	< 335	ug/Kg	3/17/2020 08:59
Phenol	< 335	ug/Kg	3/17/2020 08:59
Pyrene	< 335	ug/Kg	3/17/2020 08:59

<b>Surrogate</b>	<b>Percent Recovery</b>	<b>Limits</b>	<b>Outliers</b>	<b>Date Analyzed</b>
2,4,6-Tribromophenol	<b>78.2</b>	35.1 - 89.5		3/17/2020 08:59
2-Fluorobiphenyl	<b>71.9</b>	37.7 - 81.4		3/17/2020 08:59
2-Fluorophenol	<b>67.3</b>	40.2 - 77		3/17/2020 08:59
Nitrobenzene-d5	<b>71.6</b>	36.2 - 78.4		3/17/2020 08:59
Phenol-d5	<b>70.4</b>	41.2 - 77.1		3/17/2020 08:59
Terphenyl-d14	<b>75.4</b>	39.8 - 97.5		3/17/2020 08:59

**Method Reference(s):** EPA 8270D  
EPA 3546  
**Preparation Date:** 3/16/2020  
**Data File:** B45123.D



Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-11 0.5-1.5 FT

Lab Sample ID: 201123-09

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

**Part 375 Metals (ICP)**

<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>Qualifier</b>	<b>Date Analyzed</b>
Arsenic	2.97	mg/Kg		3/23/2020 22:27
Barium	61.5	mg/Kg		3/23/2020 22:27
Beryllium	< 0.288	mg/Kg		3/23/2020 22:27
Cadmium	0.530	mg/Kg		3/23/2020 22:27
Chromium	13.2	mg/Kg		3/23/2020 22:27
Copper	13.5	mg/Kg		3/23/2020 22:27
Lead	84.4	mg/Kg		3/23/2020 22:27
Manganese	305	mg/Kg		3/23/2020 22:27
Nickel	10.2	mg/Kg		3/23/2020 22:27
Selenium	1.43	mg/Kg		3/23/2020 22:27
Silver	0.693	mg/Kg		3/23/2020 22:27
Zinc	92.7	mg/Kg		3/23/2020 22:27

Method Reference(s): EPA 6010C

EPA 3050B

Preparation Date: 3/23/2020

Data File: 200323B

**Mercury**

<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>Qualifier</b>	<b>Date Analyzed</b>
Mercury	0.148	mg/Kg		3/18/2020 12:36

Method Reference(s): EPA 7471B

Preparation Date: 3/17/2020

Data File: Hg200318A

**Semi-Volatile Organics (Acid/Base Neutrals)**

<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>Qualifier</b>	<b>Date Analyzed</b>
1,1-Biphenyl	< 314	ug/Kg		3/17/2020 10:27
1,2,4,5-Tetrachlorobenzene	< 314	ug/Kg		3/17/2020 10:27
1,2,4-Trichlorobenzene	< 314	ug/Kg		3/17/2020 10:27
1,2-Dichlorobenzene	< 314	ug/Kg		3/17/2020 10:27

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

**Client:** BE3
**Project Reference:** 1100 Michigan Pilgrim Village

**Sample Identifier:** BH-11 0.5-1.5 FT

**Lab Sample ID:** 201123-09

**Date Sampled:** 3/12/2020

**Matrix:** Soil

**Date Received:** 3/13/2020

1,3-Dichlorobenzene	< 314	ug/Kg	3/17/2020	10:27
1,4-Dichlorobenzene	< 314	ug/Kg	3/17/2020	10:27
2,2-Oxybis (1-chloropropane)	< 314	ug/Kg	3/17/2020	10:27
2,3,4,6-Tetrachlorophenol	< 314	ug/Kg	3/17/2020	10:27
2,4,5-Trichlorophenol	< 314	ug/Kg	3/17/2020	10:27
2,4,6-Trichlorophenol	< 314	ug/Kg	3/17/2020	10:27
2,4-Dichlorophenol	< 314	ug/Kg	3/17/2020	10:27
2,4-Dimethylphenol	< 314	ug/Kg	3/17/2020	10:27
2,4-Dinitrophenol	< 1260	ug/Kg	3/17/2020	10:27
2,4-Dinitrotoluene	< 314	ug/Kg	3/17/2020	10:27
2,6-Dinitrotoluene	< 314	ug/Kg	3/17/2020	10:27
2-Chloronaphthalene	< 314	ug/Kg	3/17/2020	10:27
2-Chlorophenol	< 314	ug/Kg	3/17/2020	10:27
2-Methylnaphthalene	< 314	ug/Kg	3/17/2020	10:27
2-Methylphenol	< 314	ug/Kg	3/17/2020	10:27
2-Nitroaniline	< 314	ug/Kg	3/17/2020	10:27
2-Nitrophenol	< 314	ug/Kg	3/17/2020	10:27
3&4-Methylphenol	< 314	ug/Kg	3/17/2020	10:27
3,3'-Dichlorobenzidine	< 314	ug/Kg	3/17/2020	10:27
3-Nitroaniline	< 314	ug/Kg	3/17/2020	10:27
4,6-Dinitro-2-methylphenol	< 420	ug/Kg	3/17/2020	10:27
4-Bromophenyl phenyl ether	< 314	ug/Kg	3/17/2020	10:27
4-Chloro-3-methylphenol	< 314	ug/Kg	3/17/2020	10:27
4-Chloroaniline	< 314	ug/Kg	3/17/2020	10:27
4-Chlorophenyl phenyl ether	< 314	ug/Kg	3/17/2020	10:27
4-Nitroaniline	< 314	ug/Kg	3/17/2020	10:27
4-Nitrophenol	< 314	ug/Kg	3/17/2020	10:27
Acenaphthene	< 314	ug/Kg	3/17/2020	10:27
Acenaphthylene	< 314	ug/Kg	3/17/2020	10:27
Acetophenone	< 314	ug/Kg	3/17/2020	10:27



Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-11 0.5-1.5 FT

Lab Sample ID: 201123-09

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

Anthracene	< 314	ug/Kg	3/17/2020	10:27
Atrazine	< 314	ug/Kg	3/17/2020	10:27
Benzaldehyde	< 314	ug/Kg	3/17/2020	10:27
Benzo (a) anthracene	< 314	ug/Kg	3/17/2020	10:27
Benzo (a) pyrene	< 314	ug/Kg	3/17/2020	10:27
Benzo (b) fluoranthene	< 314	ug/Kg	3/17/2020	10:27
Benzo (g,h,i) perylene	< 314	ug/Kg	3/17/2020	10:27
Benzo (k) fluoranthene	< 314	ug/Kg	3/17/2020	10:27
Bis (2-chloroethoxy) methane	< 314	ug/Kg	3/17/2020	10:27
Bis (2-chloroethyl) ether	< 314	ug/Kg	3/17/2020	10:27
Bis (2-ethylhexyl) phthalate	< 314	ug/Kg	3/17/2020	10:27
Butylbenzylphthalate	< 314	ug/Kg	3/17/2020	10:27
Caprolactam	< 314	ug/Kg	3/17/2020	10:27
Carbazole	< 314	ug/Kg	3/17/2020	10:27
Chrysene	< 314	ug/Kg	3/17/2020	10:27
Dibenz (a,h) anthracene	< 314	ug/Kg	3/17/2020	10:27
Dibenzofuran	< 314	ug/Kg	3/17/2020	10:27
Diethyl phthalate	< 314	ug/Kg	3/17/2020	10:27
Dimethyl phthalate	< 314	ug/Kg	3/17/2020	10:27
Di-n-butyl phthalate	< 314	ug/Kg	3/17/2020	10:27
Di-n-octylphthalate	< 314	ug/Kg	3/17/2020	10:27
Fluoranthene	< 314	ug/Kg	3/17/2020	10:27
Fluorene	< 314	ug/Kg	3/17/2020	10:27
Hexachlorobenzene	< 314	ug/Kg	3/17/2020	10:27
Hexachlorobutadiene	< 314	ug/Kg	3/17/2020	10:27
Hexachlorocyclopentadiene	< 1260	ug/Kg	3/17/2020	10:27
Hexachloroethane	< 314	ug/Kg	3/17/2020	10:27
Indeno (1,2,3-cd) pyrene	< 314	ug/Kg	3/17/2020	10:27
Isophorone	< 314	ug/Kg	3/17/2020	10:27
Naphthalene	< 314	ug/Kg	3/17/2020	10:27

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

**Client:** BE3
**Project Reference:** 1100 Michigan Pilgrim Village

**Sample Identifier:** BH-11 0.5-1.5 FT

**Lab Sample ID:** 201123-09

**Date Sampled:** 3/12/2020

**Matrix:** Soil

**Date Received:** 3/13/2020

Nitrobenzene	< 314	ug/Kg	3/17/2020	10:27
N-Nitroso-di-n-propylamine	< 314	ug/Kg	3/17/2020	10:27
N-Nitrosodiphenylamine	< 314	ug/Kg	3/17/2020	10:27
Pentachlorophenol	< 628	ug/Kg	3/17/2020	10:27
Phenanthrene	< 314	ug/Kg	3/17/2020	10:27
Phenol	< 314	ug/Kg	3/17/2020	10:27
Pyrene	< 314	ug/Kg	3/17/2020	10:27

<b>Surrogate</b>	<b>Percent Recovery</b>	<b>Limits</b>	<b>Outliers</b>	<b>Date Analyzed</b>
2,4,6-Tribromophenol	<b>77.8</b>	35.1 - 89.5		3/17/2020 10:27
2-Fluorobiphenyl	<b>74.2</b>	37.7 - 81.4		3/17/2020 10:27
2-Fluorophenol	<b>67.4</b>	40.2 - 77		3/17/2020 10:27
Nitrobenzene-d5	<b>72.6</b>	36.2 - 78.4		3/17/2020 10:27
Phenol-d5	<b>70.6</b>	41.2 - 77.1		3/17/2020 10:27
Terphenyl-d14	<b>79.0</b>	39.8 - 97.5		3/17/2020 10:27

**Method Reference(s):** EPA 8270D  
 EPA 3546  
**Preparation Date:** 3/16/2020  
**Data File:** B45126.D





**Client:** BE3

**Project Reference:** 1100 Michigan Pilgrim Village

**Sample Identifier:** BH-13 0.5-1.5 FT

**Lab Sample ID:** 201123-10

**Date Sampled:** 3/12/2020

**Matrix:** Soil

**Date Received:** 3/13/2020

**Part 375 Metals (ICP)**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	5.13	mg/Kg		3/23/2020 22:32
Barium	80.0	mg/Kg		3/23/2020 22:32
Beryllium	< 0.306	mg/Kg		3/23/2020 22:32
Cadmium	0.810	mg/Kg		3/23/2020 22:32
Chromium	15.3	mg/Kg		3/23/2020 22:32
Copper	54.8	mg/Kg		3/23/2020 22:32
Lead	166	mg/Kg		3/23/2020 22:32
Manganese	357	mg/Kg		3/23/2020 22:32
Nickel	13.6	mg/Kg		3/23/2020 22:32
Selenium	< 1.23	mg/Kg		3/25/2020 16:06
Silver	0.840	mg/Kg		3/23/2020 22:32
Zinc	123	mg/Kg		3/23/2020 22:32

**Method Reference(s):** EPA 6010C  
EPA 3050B  
**Preparation Date:** 3/23/2020  
**Data File:** 200323B

**Mercury**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	0.220	mg/Kg	MD	3/18/2020 12:38

**Method Reference(s):** EPA 7471B  
**Preparation Date:** 3/17/2020  
**Data File:** Hg200318A

**Semi-Volatile Organics (Acid/Base Neutrals)**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1-Biphenyl	< 314	ug/Kg		3/17/2020 15:21
1,2,4,5-Tetrachlorobenzene	< 314	ug/Kg		3/17/2020 15:21
1,2,4-Trichlorobenzene	< 314	ug/Kg		3/17/2020 15:21
1,2-Dichlorobenzene	< 314	ug/Kg		3/17/2020 15:21

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



Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-13 0.5-1.5 FT

Lab Sample ID: 201123-10

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

1,3-Dichlorobenzene	< 314	ug/Kg	3/17/2020	15:21
1,4-Dichlorobenzene	< 314	ug/Kg	3/17/2020	15:21
2,2-Oxybis (1-chloropropane)	< 314	ug/Kg	3/17/2020	15:21
2,3,4,6-Tetrachlorophenol	< 314	ug/Kg	3/17/2020	15:21
2,4,5-Trichlorophenol	< 314	ug/Kg	3/17/2020	15:21
2,4,6-Trichlorophenol	< 314	ug/Kg	3/17/2020	15:21
2,4-Dichlorophenol	< 314	ug/Kg	3/17/2020	15:21
2,4-Dimethylphenol	< 314	ug/Kg	3/17/2020	15:21
2,4-Dinitrophenol	< 1260	ug/Kg	3/17/2020	15:21
2,4-Dinitrotoluene	< 314	ug/Kg	3/17/2020	15:21
2,6-Dinitrotoluene	< 314	ug/Kg	3/17/2020	15:21
2-Chloronaphthalene	< 314	ug/Kg	3/17/2020	15:21
2-Chlorophenol	< 314	ug/Kg	3/17/2020	15:21
2-Methylnaphthalene	< 314	ug/Kg	3/17/2020	15:21
2-Methylphenol	< 314	ug/Kg	3/17/2020	15:21
2-Nitroaniline	< 314	ug/Kg	3/17/2020	15:21
2-Nitrophenol	< 314	ug/Kg	3/17/2020	15:21
3&4-Methylphenol	< 314	ug/Kg	3/17/2020	15:21
3,3'-Dichlorobenzidine	< 314	ug/Kg	3/17/2020	15:21
3-Nitroaniline	< 314	ug/Kg	3/17/2020	15:21
4,6-Dinitro-2-methylphenol	< 420	ug/Kg	3/17/2020	15:21
4-Bromophenyl phenyl ether	< 314	ug/Kg	3/17/2020	15:21
4-Chloro-3-methylphenol	< 314	ug/Kg	3/17/2020	15:21
4-Chloroaniline	< 314	ug/Kg	3/17/2020	15:21
4-Chlorophenyl phenyl ether	< 314	ug/Kg	3/17/2020	15:21
4-Nitroaniline	< 314	ug/Kg	3/17/2020	15:21
4-Nitrophenol	< 314	ug/Kg	3/17/2020	15:21
Acenaphthene	< 314	ug/Kg	3/17/2020	15:21
Acenaphthylene	< 314	ug/Kg	3/17/2020	15:21
Acetophenone	< 314	ug/Kg	3/17/2020	15:21

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



Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-13 0.5-1.5 FT

Lab Sample ID: 201123-10

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

Anthracene	< 314	ug/Kg	3/17/2020 15:21
Atrazine	< 314	ug/Kg	3/17/2020 15:21
Benzaldehyde	< 314	ug/Kg	3/17/2020 15:21
Benzo (a) anthracene	< 314	ug/Kg	3/17/2020 15:21
Benzo (a) pyrene	< 314	ug/Kg	3/17/2020 15:21
Benzo (b) fluoranthene	< 314	ug/Kg	3/17/2020 15:21
Benzo (g,h,i) perylene	< 314	ug/Kg	3/17/2020 15:21
Benzo (k) fluoranthene	< 314	ug/Kg	3/17/2020 15:21
Bis (2-chloroethoxy) methane	< 314	ug/Kg	3/17/2020 15:21
Bis (2-chloroethyl) ether	< 314	ug/Kg	3/17/2020 15:21
Bis (2-ethylhexyl) phthalate	< 314	ug/Kg	3/17/2020 15:21
Butylbenzylphthalate	< 314	ug/Kg	3/17/2020 15:21
Caprolactam	< 314	ug/Kg	3/17/2020 15:21
Carbazole	< 314	ug/Kg	3/17/2020 15:21
Chrysene	< 314	ug/Kg	3/17/2020 15:21
Dibenz (a,h) anthracene	< 314	ug/Kg	3/17/2020 15:21
Dibenzofuran	< 314	ug/Kg	3/17/2020 15:21
Diethyl phthalate	< 314	ug/Kg	3/17/2020 15:21
Dimethyl phthalate	< 314	ug/Kg	3/17/2020 15:21
Di-n-butyl phthalate	< 314	ug/Kg	3/17/2020 15:21
Di-n-octylphthalate	< 314	ug/Kg	3/17/2020 15:21
Fluoranthene	<b>324</b>	ug/Kg	3/17/2020 15:21
Fluorene	< 314	ug/Kg	3/17/2020 15:21
Hexachlorobenzene	< 314	ug/Kg	3/17/2020 15:21
Hexachlorobutadiene	< 314	ug/Kg	3/17/2020 15:21
Hexachlorocyclopentadiene	< 1260	ug/Kg	3/17/2020 15:21
Hexachloroethane	< 314	ug/Kg	3/17/2020 15:21
Indeno (1,2,3-cd) pyrene	< 314	ug/Kg	3/17/2020 15:21
Isophorone	< 314	ug/Kg	3/17/2020 15:21
Naphthalene	< 314	ug/Kg	3/17/2020 15:21

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



Lab Project ID: 201123

Client: **BE3**

Project Reference: 1100 Michigan Pilgrim Village

Sample Identifier: BH-13 0.5-1.5 FT

Lab Sample ID: 201123-10

Date Sampled: 3/12/2020

Matrix: Soil

Date Received: 3/13/2020

Nitrobenzene	< 314	ug/Kg	3/17/2020	15:21
N-Nitroso-di-n-propylamine	< 314	ug/Kg	3/17/2020	15:21
N-Nitrosodiphenylamine	< 314	ug/Kg	3/17/2020	15:21
Pentachlorophenol	< 628	ug/Kg	3/17/2020	15:21
Phenanthrene	< 314	ug/Kg	3/17/2020	15:21
Phenol	< 314	ug/Kg	3/17/2020	15:21
Pyrene	< 314	ug/Kg	3/17/2020	15:21

<b>Surrogate</b>	<b>Percent Recovery</b>	<b>Limits</b>	<b>Outliers</b>	<b>Date Analyzed</b>
2,4,6-Tribromophenol	<b>72.6</b>	35.1 - 89.5		3/17/2020 15:21
2-Fluorobiphenyl	<b>70.0</b>	37.7 - 81.4		3/17/2020 15:21
2-Fluorophenol	<b>61.2</b>	40.2 - 77		3/17/2020 15:21
Nitrobenzene-d5	<b>68.5</b>	36.2 - 78.4		3/17/2020 15:21
Phenol-d5	<b>64.0</b>	41.2 - 77.1		3/17/2020 15:21
Terphenyl-d14	<b>71.7</b>	39.8 - 97.5		3/17/2020 15:21

Method Reference(s): EPA 8270D  
 EPA 3546  
 Preparation Date: 3/16/2020  
 Data File: B45136.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.*

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

# GENERAL TERMS AND CONDITIONS

## LABORATORY SERVICES

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

### **Warranty.**

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

### **Scope and Compensation.**

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will 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 the 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.

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

Report Prepared Thursday, March 26, 2020



# CHAIN OF CUSTODY

1042

REPORT TO:

INVOICE TO:

CLIENT: **BE3**

CLIENT:

LAB PROJECT ID

ADDRESS: **1270 Wergman St**

ADDRESS:

201123

CITY: **Buffalo** STATE: **NY** ZIP: **14213**

CITY:

STATE: ZIP:

PHONE: **716-308-8220**

PHONE:

Quotation #:

ATTN: **Peter J. Goetz**

ATTN:

Email: **pgoetz@paradigmenv.com**

PROJECT REFERENCE  
**1100 MICHIGAN  
BILGEM VILLAGE**

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	GRADES	SAMPLE IDENTIFIER	MCAO TDRS	NONCONTAMINANTS	REQUESTED ANALYSIS	REMARKS	PARADIGM LAB SAMPLE NUMBER
3-12-20	0840	X	BH-2	0-2FT	SD	X			01
	0850	X	BH-2	0.5-1.5FT					02
	0915		BH-3	1.0-3.5FT					03
	0935		BH-4	1.0-3.5FT					04
	0945		BH-5	1-2FT					05
	1015		BH-6	1-2.5FT					06
	1040		BH-8	1-2.5FT					07
	1105		BH-10	0.5-2FT					08
	1115		BH-11	0.5-1.5FT					09
	1125		BH-12	0.5-1.5FT					
	1135		BH-13	0.5-1.5FT					

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

Other  Other

Sampled By: **Peter J. Goetz** Date/Time: **3-12-2020**

Relinquished By: **Peter Goetz** Date/Time: **3-12-2020 3:10**

Received By: **Peter Goetz** Date/Time: **3-12-2020 3:10**

Received @ Lab By: **Peter Goetz** Date/Time: **3-13-2020 08:56**

Total Cost:

P.L.F.

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

See additional page for sample conditions.



### Chain of Custody Supplement

Client: BE3  
Lab Project ID: 201123

Completed by: Glenn Perzulo  
Date: 3/13/2020

#### Sample Condition Requirements Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____ _____		
Preservation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> metals
Comments	<u>5°C iced</u>		
Compliant Sample Quantity/Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		



# **APPENDIX 3**

## **BORING LOGS**

# Geoprobe Bore Hole Log



1270 Niagara Street  
Buffalo, NY 14213  
716.249.6880 [be3corp.com](http://be3corp.com)

Project:		Pilgrim Village Northeast Section	
Client:	SAA/EVI	Location:	1100 Michigan Ave, Buffalo, NY
Contractor:	TREC Env.	Lat/Long:	Lat: Long:
Date Started:	3/12/2020	Equipment Model:	Geoprobe 54LT and 4ft Sampler
Date Completed:	3/12/2020	Geologist/Technician:	P. Gorton
Operator:	Trec	Ground Water:	
<b>Bore Hole Number:</b>	<b>BH-1</b>	Depth to Bedrock:	N/A

Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	
1					
2					0-2.5 feet - topsoil/fill - sandy clayey silt - loamy with brick and stone
3					
4					
5					
6					2.5-6.5 feet - red-brown silty sandy clay
7					
8					6.5-8 feet - silty sandy clay - damp-wet at 7-8 feet Borehole completed at 8 feet
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: 0 PPM on PID  
Soil Sample from 0-2 feet

# Geoprobe Bore Hole Log



1270 Niagara Street  
Buffalo, NY 14213  
716.249.6880 [be3corp.com](http://be3corp.com)

Project:			Pilgrim Village Northeast Section		
Client:		SAAEVI	Location:		1100 Michigan Ave, Buffalo, NY
Contractor:		TREC Env.	Lat/Long:		Lat: Long:
Date Started:		3/12/2020	Equipment Model:		Geoprobe 54LT and 4ft Sampler
Date Completed:		3/12/2020	Geologist/Technician:		P. Gorton
Operator:		Trec	Ground Water:		
Bore Hole Number: <b>BH-2</b>			Depth to Bedrock:		N/A
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	0-0.5 feet asphalt
1					0.5-1.5 feet - fill/topsoil sandy clayey silt - loamy with stone and brick
2					
3					
4					1.5-4 feet - sandy, silty clay brown
5					
6					4-6 feet - sandy, silty clay - red-brown
7					
8					6-8 feet - light brown sandy - damp Borehole completed at 8 feet
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: 0 PPM on PID Soil Sample from 0.5-1.5 feet					

# Geoprobe Bore Hole Log



1270 Niagara Street  
Buffalo, NY 14213  
716.249.6880 [be3corp.com](http://be3corp.com)

Project:			Pilgrim Village Northeast Section		
Client:		SAAEVI	Location:		1100 Michigan Ave, Buffalo, NY
Contractor:		TREC Env.	Lat/Long:		Lat: Long:
Date Started:		3/12/2020	Equipment Model:		Geoprobe 54LT and 4ft Sampler
Date Completed:		3/12/2020	Geologist/Technician:		P. Gorton
Operator:		Trec	Ground Water:		
Bore Hole Number: <b>BH-3</b>			Depth to Bedrock:		N/A
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	
1					
2					0-2 feet - fill/topsoil sandy clayey silt - loamy with stone and brick
3					
4					2-4 feet - sandy, silty clay brown
5					
6					
7					
8					4-8 feet - silty sandy clay
9					
10					8-10 silty clayey sand
11					
12					10-12 - sand wet
13					Borehole completed at 12 feet
14					
15					
16					
17					
18					
19					
20					
Comments: 0 PPM on PID Soil Sample from 1-3.5 feet					



# Geoprobe Bore Hole Log



1270 Niagara Street  
Buffalo, NY 14213  
716.249.6880 [be3corp.com](http://be3corp.com)

Project:			Pilgrim Village Northeast Section		
Client:	SAA/EVI		Location:	1100 Michigan Ave, Buffalo, NY	
Contractor:	TREC Env.		Lat/Long:	Lat: Long:	
Date Started:	3/12/2020		Equipment Model:	Geoprobe 54LT and 4ft Sampler	
Date Completed:	3/12/2020		Geologist/Technician:	P. Gorton	
Operator:	Trec		Ground Water:		
<b>Bore Hole Number:</b>	<b>BH-4</b>		Depth to Bedrock:	N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	
1					
2					
3					
4					0-4 feet - fill/topsoil sandy clayey silt - loamy with stone and brick; coal or black cinder
5					
6					4-6 feet - sandy, clayey silt
7					6-7 - wood, black, silty sand - sewer odor
8					7-8 feet - red-brown clay
					Borehole completed at 8 feet
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: 0 PPM on PID Soil Sample from 1-3.5 feet					

# Geoprobe Bore Hole Log



1270 Niagara Street  
Buffalo, NY 14213  
716.249.6880 [be3corp.com](http://be3corp.com)

Project:			Pilgrim Village Northeast Section		
Client:		SAA/EVI	Location:		1100 Michigan Ave, Buffalo, NY
Contractor:		TREC Env.	Lat/Long:		Lat: Long:
Date Started:		3/12/2020	Equipment Model:		Geoprobe 54LT and 4ft Sampler
Date Completed:		3/12/2020	Geologist/Technician:		P. Gorton
Operator:		Trec	Ground Water:		
<b>Bore Hole Number:</b>		<b>BH-5</b>	Depth to Bedrock:		N/A
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	
1					
2					
3					
4					0-4 feet - fill/topsoil sandy clayey silt - loamy with stone and brick; coal or black cinder
5					
6					
7					
8					4-8 feet - red-brown clay Borehole completed at 8 feet
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: 0 PPM on PID Soil Sample from 1-2 feet					

# Geoprobe Bore Hole Log



1270 Niagara Street  
Buffalo, NY 14213  
716.249.6880 [be3corp.com](http://be3corp.com)

Project:			Pilgrim Village Northeast Section		
Client:		SAA/EVI	Location:		1100 Michigan Ave, Buffalo, NY
Contractor:		TREC Env.	Lat/Long:		Lat: Long:
Date Started:		3/12/2020	Equipment Model:		Geoprobe 54LT and 4ft Sampler
Date Completed:		3/12/2020	Geologist/Technician:		P. Gorton
Operator:		Trec	Ground Water:		
Bore Hole Number: <b>BH-6</b>			Depth to Bedrock:		N/A
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	0-0.5 feet - fill/topsoil sandy clayey silt
1					
2					0-2 feet - fill/topsoil sandy clayey silt - loamy with stone and brick
3					
4					0.5-4 feet -fill - sandy clayey silt - dark brown-black with stone, brick
5					
6					
7					
8					4-8 feet -brown-black silty sandy clay
9					
10					8-10 silty clayey sand brown
11					
12					10-12 - clayey sand moist-wet
13					Borehole completed at 12 feet
14					
15					
16					
17					
18					
19					
20					
Comments: 0 PPM on PID Soil Sample from 1-2.5 feet					

# Geoprobe Bore Hole Log



1270 Niagara Street  
Buffalo, NY 14213  
716.249.6880 [be3corp.com](http://be3corp.com)

Project:			Pilgrim Village Northeast Section		
Client:		SAA/EVI	Location:		1100 Michigan Ave, Buffalo, NY
Contractor:		TREC Env.	Lat/Long:		Lat: Long:
Date Started:		3/12/2020	Equipment Model:		Geoprobe 54LT and 4ft Sampler
Date Completed:		3/12/2020	Geologist/Technician:		P. Gorton
Operator:		Trec	Ground Water:		
Bore Hole Number:		BH-7	Depth to Bedrock:		N/A
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	
1					
2					
3					0-3.5 feet - fill/topsoil sandy clayey silt - loamy with stone and brick
4					
5					
6					
7					
8					3.5-8 feet - red-brown sandy, silty clay Borehole completed at 8 feet
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: 0 PPM on PID No Soil Sample Collected					



# Geoprobe Bore Hole Log



1270 Niagara Street  
Buffalo, NY 14213  
716.249.6880 [be3corp.com](http://be3corp.com)

Project:			Pilgrim Village Northeast Section		
Client:		SAA/EVI	Location:		1100 Michigan Ave, Buffalo, NY
Contractor:		TREC Env.	Lat/Long:		Lat: Long:
Date Started:		3/12/2020	Equipment Model:		Geoprobe 54LT and 4ft Sampler
Date Completed:		3/12/2020	Geologist/Technician:		P. Gorton
Operator:		Trec	Ground Water:		
Bore Hole Number:		BH-8	Depth to Bedrock:		N/A
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	
1					
2					
3					0-3 feet - fill/topsoil sandy clayey silt - loamy brown-black with stone and brick, porcelain, 3-3.5 feet - light brown sand
4					3.5-4 feet - clayey sand
5					
6					4-6 feet - sand - wet
7					
8					6-8 feet - red-brown sandy, silty clay Borehole completed at 8 feet
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: 0 PPM on PID Soil Sample Collected at 1-2.5 feet					

# Geoprobe Bore Hole Log



1270 Niagara Street  
Buffalo, NY 14213  
716.249.6880 [be3corp.com](http://be3corp.com)

Project:			Pilgrim Village Northeast Section		
Client:		SAA/EVI	Location:		1100 Michigan Ave, Buffalo, NY
Contractor:		TREC Env.	Lat/Long:		Lat: Long:
Date Started:		3/12/2020	Equipment Model:		Geoprobe 54LT and 4ft Sampler
Date Completed:		3/12/2020	Geologist/Technician:		P. Gorton
Operator:		Trec	Ground Water:		
Bore Hole Number:		BH-9	Depth to Bedrock:		N/A
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	
1					
2					
3					0-3.5 feet - fill/topsoil sandy clayey silt; dark brown - black - loamy with
4					
5					3.5-5 feet - sand
6					
7					
8					5-8 feet - red-brown sandy, silty clay Borehole completed at 8 feet
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: 0 PPM on PID No Soil Sample Collected					

# Geoprobe Bore Hole Log



1270 Niagara Street  
Buffalo, NY 14213  
716.249.6880 [be3corp.com](http://be3corp.com)

Project:				Pilgrim Village Northeast Section			
Client:		SAA/EVI		Location:		1100 Michigan Ave, Buffalo, NY	
Contractor:		TREC Env.		Lat/Long:		Lat: Long:	
Date Started:		3/12/2020		Equipment Model:		Geoprobe 54LT and 4ft Sampler	
Date Completed:		3/12/2020		Geologist/Technician:		P. Gorton	
Operator:		Trec		Ground Water:			
<b>Bore Hole Number:</b> BH-10				Depth to Bedrock:		N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description		
	NO	TYPE					
0				0.0	0-2 feet - fill/topsoil sandy clayey silt; dark brown - black - loamy with stone and brick		
1							
2							
3							
4					2-4 feet - light brown sand		
5							
6					4-6 sand - very wet		
7							
8					6-8 feet - red-brown sandy, silty clay Borehole completed at 8 feet		
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
Comments: 0 PPM on PID Soil Sample Collected at 0.5-2 feet							

# Geoprobe Bore Hole Log



1270 Niagara Street  
Buffalo, NY 14213  
716.249.6880 [be3corp.com](http://be3corp.com)

Project:			Pilgrim Village Northeast Section		
Client:		SAA/EVI	Location:		1100 Michigan Ave, Buffalo, NY
Contractor:		TREC Env.	Lat/Long:		Lat: Long:
Date Started:		3/12/2020	Equipment Model:		Geoprobe 54LT and 4ft Sampler
Date Completed:		3/12/2020	Geologist/Technician:		P. Gorton
Operator:		Trec	Ground Water:		
<b>Bore Hole Number:</b> BH-11			Depth to Bedrock:		N/A
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	
1					
2					
3					
4					0-4 feet - fill/topsoil sandy clayey silt; dark brown - black - loamy with stone and brick
5					
6					
7					
8					4-8 feet - sandy clayey silt; dark brown - black - loamy with stone and brick. Sand at 8 feet Borehole completed at 8 feet
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: 0 PPM on PID Soil Sample Collected at 0.5-1.5 feet					



# Geoprobe Bore Hole Log



1270 Niagara Street  
Buffalo, NY 14213  
716.249.6880 [be3corp.com](http://be3corp.com)

Project:				Pilgrim Village Northeast Section			
Client:		SAA/EVI		Location:		1100 Michigan Ave, Buffalo, NY	
Contractor:		TREC Env.		Lat/Long:		Lat: Long:	
Date Started:		3/12/2020		Equipment Model:		Geoprobe 54LT and 4ft Sampler	
Date Completed:		3/12/2020		Geologist/Technician:		P. Gorton	
Operator:		Trec		Ground Water:			
Bore Hole Number: BH-12				Depth to Bedrock:		N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description		
	NO	TYPE					
0				0.0			
1							
2							
3							
4					0-4 feet - fill/topsoil sandy clayey silt; dark brown - black - loamy with stone and brick		
5					4-5 feet - silty sand		
6							
7							
8					5-8 feet - sand - wet		
9					Borehole completed at 8 feet		
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
Comments: 0 PPM on PID Soil Sample Collected at 0.5-1.5 feet							

# Geoprobe Bore Hole Log



1270 Niagara Street  
Buffalo, NY 14213  
716.249.6880 [be3corp.com](http://be3corp.com)

Project:			Pilgrim Village Northeast Section		
Client:		SAA/EVI	Location:		1100 Michigan Ave, Buffalo, NY
Contractor:		TREC Env.	Lat/Long:		Lat: Long:
Date Started:		3/12/2020	Equipment Model:		Geoprobe 54LT and 4ft Sampler
Date Completed:		3/12/2020	Geologist/Technician:		P. Gorton
Operator:		Trec	Ground Water:		
<b>Bore Hole Number: BH-13</b>			Depth to Bedrock:		N/A
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0				0.0	
1					
2					0-2 feet - fill/topsoil sandy clayey silt; dark brown - black - loamy with stone and brick
3					
4					2-4 feet - red-brown clay
5					
6					
7					
8					4-8 feet - red-brown clay
9					Borehole completed at 8 feet
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: 0 PPM on PID Soil Sample Collected at 0.5-1.5 feet					