

# PHASE II ENVIRONMENTAL SITE ASSESSMENT

**624 RIVER ROAD  
CITY OF NORTH TONAWANDA, NIAGARA COUNTY, NEW YORK**

Prepared for:


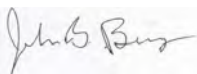
DLV Properties, LLC  
10151 Main Street  
Clarence, NY 14031

Prepared by:



1270 Niagara Street  
Buffalo, New York 14213

January 2019

<b>Prepared By:</b> Peter J. Gorton, MPH; CHCM	<b>Signature:</b> 	<b>Date:</b> 1/2018	<b>Title:</b> BE3 – PM
<b>Reviewed By:</b> John Berry, PE	<b>Signature:</b> 	<b>Date:</b> 1/2018	<b>Title:</b> BE3 – PM

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# 1.0 INTRODUCTION

## 1.1 PURPOSE

BE3 Corp/Panamerican (BE3) performed a Phase II environmental site assessment (ESA) at the 624 River Road property in North Tonawanda, New York (see **Figure 1**). The property is located about 1.3 miles northwest of North Tonawanda City Hall. The elevation at the site is approximately 573 feet above sea level and the general middle of the parcel is located at latitude 42° 2' 11.92" N; Longitude 78° 53' 12.79" W. The immediate area around the property is formerly vacant industrial but newly residential to the south (redeveloped under Brownfield Cleanup Program); commercial properties east; the Niagara River to the west and a large public park to the north. The subject property is a parcel comprising approximately 5.13-acres of land and contains a 17,745 square foot medical office building that was built in 1997. The building has been divided into 8 office suites, with a central lobby and restroom facilities. The property is in the center of a block that fronts along River Road to the east and is bound by the Niagara River to the west. The eastern two-thirds of the parcel is grass covered, and a paved walkway/right-of-way traverses the eastern side of the property. Concrete walkways surround the building on three sides, and a large parking area is located to the east of the building. Beyond the parking lot is a large soil and grass berm. There is a fenced-in dumpster near the northwest corner of the building, and an electrical transformer located in the northeast corner of the parking area. There are two storm water drainage intakes in the parking area, and one in the grassy area.(see **Figure 2**).

The Phase II ESA addresses the general scope of work communicated in our proposal of December 26, 2018 and follow-up telephone discussions. The purpose of the assessment was to obtain information and data for use in a Brownfields Cleanup Program (BCP) application and to assess recognized environmental conditions identified during the Phase I ESA. The Phase I RECs were as follows:

- A previously-completed site investigation noted that a portion of the subject property was used for nearly 100 years as an iron ore smelting facility, and that various associated properties have shown the presence of metals concentrations in property soils.
- A previously-completed site investigation at the property adjacent to the south indicated the primary contaminants of concern included metals, polycyclic aromatic hydrocarbons (PAHs) and technologically enhanced normally occurring radioactive material (TENORM) in the form of slag. As the two sites were both once operated as Tonawanda Iron Works, it is likely that the same conditions existed at the subject property.

For this investigation, a series of test pits were advanced across the property to examine and assess subsurface conditions. The prime objective of the Phase II ESA was to determine the potential for environmental impacts from past property use and whether any impacts encountered were sufficiently significant to apply for the NYSDEC Brownfield Cleanup Program (BCP). The assessment was also directed at gaining information for future re-development purposes.

## 1.2 BACKGROUND

Currently, the subject property is a parcel comprising approximately 5.13-acres of land and contains a 17,745 square foot medical office building that was built in 1997. The steel-framed brick structure has a concrete slab on grade foundation, and a flat roof with EPDM covering. The building has carpeted floors, painted drywall walls and drop ceilings with fluorescent lights throughout. Building materials appear to be well-kept and in no need of repair. The building has been divided into 8 office suites, with a central lobby and restroom facilities.

The property is in the center of a block that fronts along River Road to the east and is bound by the Niagara River to the west. The parcel is relatively flat and is situated at approximately 575 feet above sea level. The eastern two-thirds of the parcel is grass covered, and a paved walkway/right-of-way traverses the eastern side of the property. Concrete walkways surround the building on three sides, and a large parking area is located to the east of the building. Beyond the parking lot is a large soil and grass berm. There is a fenced-in dumpster near the northwest corner of the building, and an electrical transformer is located in the northeast corner of the parking area. There are two storm water drainage intakes in the parking area, and one in the grassy area.

Historically, a large iron ore and smelting operation operated on the property and adjacent properties. Tonawanda Iron was constructed by the Niagara Iron & Steel Company in 1873 and became the Tonawanda Iron & Steel Company in 1889. In 1895, a second blast furnace was put in operation. Tonawanda Iron, which produced approximately 3,000 rail car load of pig iron each year, closed its doors in 1972. The property has a history of use and storage of petroleum in underground tanks. Documentation indicates some of these tanks were closed in place and others may have been removed.

*Contaminants of Concern* - The history and use of the target site and adjacent properties indicates a potential for environmental impairment from bulk petroleum storage, chemical use, and waste disposal. The primary contaminants associated with petroleum use and storage and iron ore and metal smelting include primarily Volatile Organic Compounds (VOCs), including BTEX, Polyaromatic Hydrocarbons (PAHs) and other specific Semi Volatile Organic Compounds (SVOCs) and metals.

### 1.3 SCOPE

The objective of this environmental assessment was to determine the presence of environmental impacts from historical use at and adjacent to the subject property. This was accomplished through subsurface sampling relative to the potential RECs identified in the Phase I ESA. Sampling was strategically performed on site to assess the following: historical petroleum usage and storage, metals and PAH compounds associated with iron and metal processing/smelting

The site investigation included the advancement of seventeen (17) test pits and collection of subsurface across the property (see **Figure 3**). Soil from each boring was visually examined, and soil samples that appeared to be environmentally impacted were collected. A total of eighteen (18) soil samples were collected from the seventeen (17) separate locations and submitted to a New York State approved laboratory. A subset of these were analyzed for NYSDEC NYCRR Part 375 semi-volatile and metal compounds plus PCBs and pesticides.

Test pit and sub-surface sampling locations were field located across the property. All test pits were advanced at a minimum distance of 2.5 feet away from marked utilities to reduce the possibility of accidentally damaging an underground line. Assessment of subsurface conditions included visual/olfactory observations.

## **2.0 FIELD INVESTIGATIONS**

Phase II field work was completed on a single day on January 3, 2019. A photolog of field operations is included as **Appendix 1**, and a summary of the field investigation methodology and findings is presented in Sections 2.1 through 2.3.

## 2.1 TEST PITS AND SAMPLING

Seventeen (17) test pits were advanced across the property and identified as Test Pits TP- 1 through TB-17 using a backhoe (see **Figure 3**). Test pits were field located to assess the subsurface where contamination may exist based on the history of the property and to ensure assessment across the property. A total of eighteen near-surface soil samples were collected; one from each of the seventeen test pits and an extra sample in test pit TH-16 from two distinct fill zones.

Test Pits depths ranged between one and a half feet (1.5) to four (4) feet below ground surface (bgs). The objective was to assess shallow subsurface and fill conditions. Composite soil samples were collected from the fill materials. The specific soil samples and depths ranged as following:

- TP-1 at 2-4 feet bgs
- TP-2, TP-3, TP-4, TP-8, TP-10, and TP-12 at 1-3 feet bgs
- TP-5 and a second sample from TP-16 at 3-4 feet bgs
- TP-6, TP-9, TP-11, TP-13, TP-14, TP-16 and TP-17 at 1-2 feet bgs
- TP-15 at 0-1 feet bgs

A subset of these soil samples were selected for laboratory analysis including TP2 and TP-3; TP-6; TP-9; TP-11; TP-14 and TP-15 and TP-16. The remaining samples were submitted to the lab but held from analysis pending the finding of the initial eight samples. All samples were shipped to a NYSDEC approved laboratory to determine the extent and magnitude of soil contamination in the near-surface. Stratification of material in the test pits and observations were noted on test pit logs (see **Appendix 2**). Prior to conducting the subsurface investigation, all utilities were located. All test pits were backfilled in the order of removal. Field screening for VOCs was not completed as the PID was not functioning properly in the cold temperatures. There were no visual or olfactory indication of volatile organic compounds. Any unusual observations such as odors and discoloration are noted on the boring logs in **Appendix 2**.

## 2.2 SAMPLING RATIONALE

Past uses of the site/adjacent properties indicate the potential for petroleum, semivolatiles organic compounds and metals to be the primary constituents associated with potential environmental impairment on site. The characteristics of the subsurface and suspected contaminants of concern have been defined through the Phase I ESA and prior experience with the adjacent 600 River Road property. In addition, potential exists for the subject property to be included into the NYSDEC Brownfield Cleanup Program (BCP), and sampling strategy was adjusted accordingly. Sampling parameters were therefore chosen to address all potential contaminants including PCBs, pesticides, metals, and SVOC compounds. Petroleum and volatile organic compounds were not analyzed for as no visual or olfactory observations warranted the expense for these parameter analysis.

The methods selected to assess the potential contamination at the subject property are appropriate to assess preliminarily the extent of environmental impairment. Considering the contaminant possibilities and the BCP, analyzing these near-surface soils for the selected parameters under NYSDEC Part 375 provides adequate assurance of detecting potential contamination.

## **3.0 RESULTS**

### 3.1 SUBSURFACE CONDITIONS

The property is a large grass-covered field with a one-story medical/office complex and parking area

located in the west central portion of the parcel. The past commercial use for nearly 100 years as an iron ore smelting facility dictates the near-subsurface conditions of the property – refer to Section 1.1 and 1.2 for site background information. Every test pit completed across the property revealed fill containing silty-sand material with some clay and C&D debris including stone, pieces of brick, concrete, wood, metal and other materials. Native soil was not encountered as the test pits were advanced to relatively shallow depths – four feet being the deepest.

Most of fill materials was dark brown or reddish-brown in color and tended to be loose/not tight. A few test pits encountered hard materials that may have been associated with former buildings or drive/parking areas. Bedrock onsite was never encountered in any test pit. Please refer to attached photographs of each test pit location and completed test pit material spoils.

### 3.2 ANALYTICAL RESULTS

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. Please refer to **Figure 2** and **Table 1** for the results of subsurface soil samples compared to unrestricted, residential, and restricted residential SCOs in Part 375 and see the complete set of analytical data in **Appendix C**.

#### *3.2.1 Subsurface Soil*

Subsurface/Near Surface soil samples were collected at all of the 17 boring locations shown on Figure 2 but only eight (8) of these samples from locations spread across the property were submitted to a laboratory for analysis. Metals were detected in all samples analyzed. Pesticides were detected in three samples; TP-2, TP-3 and TP-6. PCBs were detected in two samples; TP-2 and TP-3. SVOCs, were detected in four of the eight samples analyzed; TP-2, TP-6 TP-9 and TP-17. Details of the exceedances are shown in **Table 1 and Figure 2** and the following provides a summary of the soil exceedances above SCOs:

#### **Metals**

- Metal exceedances above restricted residential SCOs were observed in five (5) of the eight (8) test pit samples – (TP-2, 6, 9, 11 and 15).
- Metal exceedances above residential SCOs were observed in two (2) of the samples – TP-2 and TP-11
- Metal exceedances above unrestricted SCOs were observed six (6) of the samples – TP-2, 3, 6, 9, 11, and 17.

#### **SVOCs**

- SVOC exceedances above restricted residential SCOs were observed in two (2) of the eight (8) test pit samples – (TP-2, and 6)
- SVOC exceedances above residential SCOs were observed in two (2) of the samples – TP-2

Pesticide results were above residential levels in TP-2.

## **4.0 CONCLUSIONS & RECOMMENDATIONS**

The purpose of this assessment was to identify potential environmental impacts in the near-surface and



subsurface at 624 River Road in North Tonawanda, New York. The Phase I ESA identified potential RECs from historical uses of the site. These concerns included (1) industrial and commercial historical use dated from first development of the vacant site in early 1900s, (2) possible UST or USTs located in some locations, (3) fill conditions on the adjacent 600 River Road BCP project which shared a historical use with the subject property.

Field observations and laboratory results indicate that there are widespread environmental impacts in the near-surface and subsurface. Metal and SVOC exceedances were observed above NYSDEC NYCRR Part 375 Part 375 SCOs in locations across the property. Visual observations of the subsurface indicate similar fill conditions across the property.

## 5.0 WARRANTS AND LIMITATIONS

This report is based on information from limited soil sampling, organic vapor screening, and visual observations of the surface and subsurface soils. 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 DLV Properties, LLC and Visone Construction and others approved by DLV Properties, LLC/Visone. The scope of services performed in this assessment may not be appropriate to satisfy the needs of other users and any use or reuse of this document or the findings, conclusions, or recommendations presented, is at the sole risk of the user.

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

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

## 6.0 PROFESSIONAL STATEMENT/SIGNATURE

This Phase II ESA at 624 River Road 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.



January 21-2019

Peter J. Gorton, CHCM, MPH

Date

Total Years of Environmental Work Experience – Over 40

# TABLES



**Table 1**  
**624 River Road Soil Sample Analytical Results**  
**NYCRR Part 375**  
**Sampling Date: 1-03-19**

Contaminants	Sample Identification								Soil Cleanup Objectives		
	TP-2 (1-3')	TP-3 (1-3')	TP-6 (1-2')	TP-9 (1-2')	TP-11 (1-2')	TP-14 (1-2')	TP-15 (0-1')	TP-17 (1-2')	Unrestricted Use	Residential	Restricted Residential
<b>METALS</b>											
Arsenic	24	10.6	9.1	24.9	24.7	4.1	6.1	15.1	13	16	16
Barium	142	85.9	110	116	80.2	23.8	32.2	84.6	350	350	400
Beryllium	1.11	1.1	2.4	1.1	1.1	ND	ND	1	7.2	14	72
Cadmium	3.27	0.45	0.56	1.91	2.32	0.45	0.32	1.09	2.5	2.5	4.3
Chromium, trivalent	82.4	14.8	12.9	24.2	37.4	5.25	7.1	11.7	30	36	180
Copper	193	30.1	26.5	50	57.2	8.44	11.5	47.9	50	270	270
Lead	166	50.7	43.8	105	168	24	42.7	83.7	63	400	400
Manganese	8800	378	2190	5300	943	1430	1130	1470	1600	2,000	2,000
Nickel	41	14.9	9.32	15.8	10.3	6.6	6.6	7.8	30	140	310
Selenium	7.3	2	1.91	5.2	5.63	ND	ND	4.3	3.9	36	180
Silver	5.7	1.1	0.84	2.24	2.9	ND	ND	ND	2	36	180
Zinc	630	119	144	341	512	1.08	70.2	259	109	2200	10,000
Cyanide	1.6	ND	1.8	1.3	0.7	ND	ND	2	27	27	27
Total Mercury	0.43	0.08	0.24	0.27	0.3	0.09	11.4	0.26	0.18	0.81	0.81
<b>PCBs/PESTICIDES</b>											
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND	0.0033	1.8	8.9
4,4'-DDT	0.005	ND	ND	ND	ND	ND	ND	ND	0.0033	1.7	7.9
4,4'-DDD	0.006	ND	ND	ND	ND	ND	ND	ND	0.0033	2.6	13
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.019	0.097
alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND	0.02	0.097	0.48
beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND	0.036	0.072	0.36
Chlordane (alpha)	ND	ND	ND	ND	ND	ND	ND	ND	0.094	0.91	4.2
delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND	0.04	100	100
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	ND	7	14	59
Dieldrin	0.007	ND	ND	ND	ND	ND	ND	ND	0.005	0.039	0.2
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND	2.4	4.8	24
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND	2.4	4.8	24
Endosulfan sulfate	0.012	ND	0.013	ND	ND	ND	ND	ND	2.4	4.8	24
Endrin	ND	ND	ND	ND	ND	ND	ND	ND	0.014	2.2	11
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND	0.042	0.42	2.1
Lindane	ND	ND	0.005	ND	ND	ND	ND	ND	0.1	0.28	1.3
PCB-1260	ND	0.04	ND	ND	ND	ND	ND	ND	0.1	1	1
PCB-1254	0.09	ND	ND	ND	ND	ND	ND	ND	0.1	1	1
<b>SEMIVOLATILE ORGANIC COMPOUNDS</b>											
Acenaphthene	ND	ND	0.76	ND	ND	ND	ND	ND	20	100	100
Acenaphthylene	0.85	ND	ND	ND	ND	ND	ND	ND	100	100	100
Anthracene	0.53	ND	1.5	ND	ND	ND	ND	ND	100	100	100
Benzo(a)anthracene	1.93	ND	2.79	ND	ND	ND	ND	ND	1	1	1
Benzo(a)pyrene	2.87	ND	2.29	ND	ND	ND	ND	ND	1	1	1
Benzo(b)fluoranthene	3.91	ND	2.2	ND	ND	ND	ND	ND	1	1	1
Benzo(g,h,i)perylene	2.41	ND	1.2	ND	ND	ND	ND	ND	100	100	100
Benzo(k)fluoranthene	1.92	ND	1.95	ND	ND	ND	ND	ND	0.8	1	3.9
Chrysene	2.32	ND	2.69	ND	ND	ND	ND	ND	1	1	3.9
Dibenz(a,h)anthracene	0.6	ND	0.51	ND	ND	ND	ND	ND	0.33	0.33	0.33
Fluoranthene	2.75	ND	5.5	ND	ND	ND	ND	0.55	100	100	100
Fluorene	ND	ND	0.72	ND	ND	ND	ND	ND	30	100	100
Indeno(1,2,3-cd)pyrene	2.18	ND	1.36	ND	ND	ND	ND	ND	0.5	0.5	0.5
m-Cresol (3-Methylphenol)	ND	ND	ND	ND	ND	ND	ND	ND	0.33	100	100
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	12	100	100
o-Cresol (2-Methylphenol)	ND	ND	ND	ND	ND	ND	ND	ND	0.33	100	100
p-Cresol (4-Methylphenol)	ND	ND	ND	ND	ND	ND	ND	ND	0.33	34	100
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	0.8	2.4	6.7
Phenanthrene	0.5	ND	4.9	0.4	ND	ND	ND	0.5	100	100	100
Phenol	ND	ND	ND	ND	ND	ND	ND	ND	0.33	100	100
Pyrene	ND	ND	4.4	ND	ND	ND	ND	0.5	100	100	100

Results and SCOs are in parts per million (ppm).

ND - Non-Detect

NA - Not Applicable

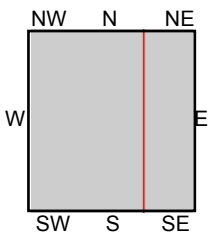
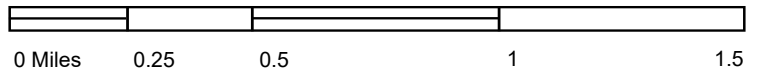
- 1 = laboratory value exceeds restricted residential SCOs
- 2 = laboratory value exceeds residential SCOs but does not exceed restricted residential SCOs
- 3 = laboratory value exceeds unrestricted SCOs but does not exceed residential SCOs

# FIGURES





This report includes information from the following map sheet(s).



TP, Tonawanda West, 2013, 7.5-minute  
NE, Tonawanda East, 2013, 7.5-minute

### FIGURE 1: Property Location





Figure: 624 River Road Property Property Location - Test Pit/Soil Sample Locations

Arsenic - 24mgkg - red - levels above restricted residential SCOs  
 Chromium - 82.4 - yellow - levels above residential SCOs  
 Lead - 166 - green - levels above unrestricted

<p>1270 Niagara Street          Buffalo, NY 14213          716.249.6680 be3corp.com</p>	<b>FIGURE 2: Test Pit Locations &amp; Sample Results Summary</b>	
	624 Rive Road North Tonawanda New York	January 2019 VisoneCo



# APPENDICES



1. Location of Test Pit – TP-1 in northwest corner of property from north facing south



2. View of location of TP-1 from east facing west



3. View of TP-1



4. Soil from TP-1





5. Location of Test Pit TP-2 in southwest corner of property from south looking north



6. Location of TP-2 from north facing south



7. View of TP-2



8. Location of Test Pit TP-3 facing west





9. Location of TP-3 facing south



10. Location of test pit TP-4 facing west



11. Test pit TP-4 facing south



12. Test Pit TP-4





13. Location of test pit TP-5 facing east



14. Location of TP-5 facing north



15. Test Pit TP-5



16. TP-5 soil pile





17. Test pit TP-6 location facing east



18. TP-6 facing north



19. TP-6



20. Test pit TP-7 facing east





21. BH-7 facing north



22. View of TP-7



23. View of Test Pit TP-8 facing north



24 TP-8 facing east





25. View of TP-8



26. Location of Test Pit TP-9 facing east



27. Location of TP-9 facing south



28. View of TP-9 trench and storage pile





29. Location of Test Pit TP-10 facing west



30. Location of TP-10 facing north



31. View of TP-10 and soil spoils



32. Location of test pit TP-11 facing west





33. Location of TP-11 facing south



34. View of TP-11



35. Location of Test Pit TP-12 facing west



36. Location of TP-12 facing south





37. View of TP-12 and soils



38. Location of Test pit TP-13 facing north



39. Location of TP-13 facing north



40. View of TP-13 and soils





41. Location of Test Pit TP-14 facing north



42. Location of Test pit TP-14 facing east



43. View of TP-14 and soils



44. Location of Test Pit TP-15 facing north





45. Location of Test Pit TP-15 facing east



46. View of TP-15 and soils



47. Location of Test Pit TP-16 facing east



48. Location of Test Pit TP-16 facing north





49. View of TP-16



50. Location of Test Pit TP-17 facing south



51. Location of Test Pit TP-17 facing northeast



52. View of TP-17

# TEST PIT LOG



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

Project: 624 River Road		Sheet: 1 of 1
Client: Visone Construction		Job Number:
Contractor: None - Client Heavy Equipment Operator		Location: 624 River Road, North Tonawanda, New York
Date Started: January 3, 2019		Ground Elevation:
Date Completed: January 3, 2019		Operator: L. Visone
Pit Number: Test Pit - TP-1		Geologist/Technician: P. Gorton
		Ground Water: NA

Depth (ft)	Sample		Description
	#	Type	
1			
2			
3			
4			
5			
6			
7			
8			0-8 feet - brown to dark brown clayey, sandy silt soil with C&D debris throughout including brick concrete, metal and wood Soil sample collected at 2-4 feet
9			
10			
11			
12			

Comments: Approximatelt 3 feet wide by 6 feet long by 4 feet deep  
No potential native soil observed - all appeared to be fill.  
Test Trench roughly 8 feet deep, 3 feet wide and 4 feet long  
No organic vapor observations  
  
Soil sample collected from 2-4 feet



# TEST PIT LOG



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

Project: 624 River Road		Sheet: 1 of 1
Client: Visone Construction		Job Number:
Contractor: None - Client Heavy Equipment Operator		Location: 624 River Road, North Tonawanda, New York
Date Started: January 3, 2019		Ground Elevation:
Date Completed: January 3, 2019		Operator: L. Visone
Pit Number: Test Pit - TP-2		Geologist/Technician: P. Gorton
		Ground Water: NA

Depth (ft)	Sample		Description
	#	Type	
1			0-1.5 feet - brown to dark brown silty sandy fill with bits of brick and concrete
2			1.5-2.5 feet - red-brown sand-cynder fill
3			2.5-3 feet - brown-dark brown silty sandy fill with brick and concrete, metal fines
4			Soil sample collected composite of 1-3 feet
5			
6			
7			
8			
9			
10			
11			
12			

Comments: Approximatelt 3 feet wide by 4 feet long by 3 feet deep  
 No potential native soil observed - all appeared to be fill.  
 Test Trench roughly 3 feet deep, 3 feet wide and 4 feet long  
 No organic vapor observations

# TEST PIT LOG



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

Project: 624 River Road		Sheet: 1 of 1
Client: Visone Construction		Job Number:
Contractor: None - Client Heavy Equipment Operator		Location: 624 River Road, North Tonawanda, New York
Date Started: January 3, 2019		Ground Elevation:
Date Completed: January 3, 2019		Operator: L. Visone
Pit Number: Test Pit - TP-3		Geologist/Technician: P. Gorton
		Ground Water: NA

Depth (ft)	Sample		Description
	#	Type	
1			
2			
3			0-3 feet - brown-dark brown silty sandy fill with brick and concrete Collected soil sample composit from 1-3 feet
4			
5			
6			
7			
8			
9			
10			
11			
12			

Comments: Approximately 3 feet wide by 3 feet long by 3 feet deep  
No potential native soil observed - all appeared to be fill.

No organic vapor observations



# TEST PIT LOG



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

Project: 624 River Road		Sheet: 1 of 1
Client: Visone Construction		Job Number:
Contractor: None - Client Heavy Equipment Operator		Location: 624 River Road, North Tonawanda, New York
Date Started: January 3, 2019		Ground Elevation:
Date Completed: January 3, 2019		Operator: L. Visone
Pit Number: Test Pit - TP-4		Geologist/Technician: P. Gorton
		Ground Water: NA

Depth (ft)	Sample		Description
	#	Type	
1			
2			
3			0-3 feet - brown-dark brown silty sandy fill with brick and concrete Collected soil sample composit from 1-3 feet
4			
5			
6			
7			
8			
9			
10			
11			
12			

Comments: Approximately 3 feet wide by 3 feet long by 3 feet deep  
No potential native soil observed - all appeared to be fill.

No organic vapor observations

# TEST PIT LOG



1270 Niagara Street  
Buffalo, NY 14213  
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Project: 624 River Road		Sheet: 1 of 1
Client: Visone Construction		Job Number:
Contractor: None - Client Heavy Equipment Operator		Location: 624 River Road, North Tonawanda, New York
Date Started: January 3, 2019		Ground Elevation:
Date Completed: January 3, 2019		Operator: L. Visone
Pit Number: Test Pit - TP-5		Geologist/Technician: P. Gorton
		Ground Water: NA

Depth (ft)	Sample		Description
	#	Type	
1			
2			
3			0-3 feet - brown-dark brown silty sandy fill with brick and concrete
4			3-4 feet - brown fill with layer of light brown clay like fill material Sample collected from 3-4 feet to include the light brown material
5			
6			
7			
8			
9			
10			
11			
12			

Comments: Approximately 3 feet wide by 3 feet long by 3 feet deep  
No potential native soil observed - all appeared to be fill.

No organic vapor observations

# TEST PIT LOG



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

Project: 624 River Road		Sheet: 1 of 1
Client: Visone Construction		Job Number:
Contractor: None - Client Heavy Equipment Operator		Location: 624 River Road, North Tonawanda, New York
Date Started: January 3, 2019		Ground Elevation:
Date Completed: January 3, 2019		Operator: L. Visone
Pit Number: Test Pit - TP-6		Geologist/Technician: P. Gorton
		Ground Water: NA

Depth (ft)	Sample		Description
	#	Type	
1			
2			0-2 feet - silty, sandy fill including sand, cynder, ash. Hard cement-like material with blue-green chips observed at 1.5 feet.
3			Test Pit ended due to hard material. Took sample from 1-2 feet
4			
5			
6			
7			
8			
9			
10			
11			
12			

Comments: Approximately 3 feet wide by 3 feet long by 1.5-2 feet deep  
No potential native soil observed - all appeared to be fill.

No organic vapor observations

# TEST PIT LOG



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

Project: 624 River Road		Sheet: 1 of 1
Client: Visone Construction		Job Number:
Contractor: None - Client Heavy Equipment Operator		Location: 624 River Road, North Tonawanda, New York
Date Started: January 3, 2019		Ground Elevation:
Date Completed: January 3, 2019		Operator: L. Visone
Pit Number: Test Pit - TP-7		Geologist/Technician: P. Gorton
		Ground Water: NA

Depth (ft)	Sample		Description
	#	Type	
1			
2			
3			
4			0-4 Deep - silty sandy fill with some pieces of brickk and concrete. Pocket of light brown clayey material at 2-3 feet. Sandy silt was redish-brown
5			Soil sample collected at 2-3 feet
6			
7			
8			
9			
10			
11			
12			

Comments: Approximately 3 feet wide by 3 feet long by 3-4 feet deep  
No potential native soil observed - all appeared to be fill.

No organic vapor observations

# TEST PIT LOG



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

Project: 624 River Road		Sheet: 1 of 1
Client: Visone Construction		Job Number:
Contractor: None - Client Heavy Equipment Operator		Location: 624 River Road, North Tonawanda, New York
Date Started: January 3, 2019		Ground Elevation:
Date Completed: January 3, 2019		Operator: L. Visone
Pit Number: Test Pit - TP-8		Geologist/Technician: P. Gorton
		Ground Water: NA

Depth (ft)	Sample		Description
	#	Type	
1			
2			
3			0-3 feet deep - silty sandy fill with some dark brown sandy material with cinder. Fill contains brick
4			Soil sample composite from 1-3 feet
5			
6			
7			
8			
9			
10			
11			
12			

Comments: Approximately 3 feet wide by 3 feet long by 3-feet deep  
No potential native soil observed - all appeared to be fill.

No organic vapor observations

# TEST PIT LOG



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

Project: 624 River Road		Sheet: 1 of 1
Client: Visone Construction		Job Number:
Contractor: None - Client Heavy Equipment Operator		Location: 624 River Road, North Tonawanda, New York
Date Started: January 3, 2019		Ground Elevation:
Date Completed: January 3, 2019		Operator: L. Visone
Pit Number: Test Pit - TP-9		Geologist/Technician: P. Gorton
		Ground Water: NA

Depth (ft)	Sample		Description
	#	Type	
1			
2			
3			0-3 feet deep - silty sandy fill with some dark brown sandy material with cinder. Fill contains some light brown clay-like material and brick, stone
4			Soil sample composite from 1-2 feet
5			
6			
7			
8			
9			
10			
11			
12			

Comments: Approximately 3 feet wide by 3 feet long by 3-feet deep  
No potential native soil observed - all appeared to be fill.

No organic vapor observations

# TEST PIT LOG



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

Project: 624 River Road		Sheet: 1 of 1
Client: Visone Construction		Job Number:
Contractor: None - Client Heavy Equipment Operator		Location: 624 River Road, North Tonawanda, New York
Date Started: January 3, 2019		Ground Elevation:
Date Completed: January 3, 2019		Operator: L. Visone
Pit Number: Test Pit - TP-10		Geologist/Technician: P. Gorton
		Ground Water: NA

Depth (ft)	Sample		Description
	#	Type	
1			
2			
3			0-3 feet deep - silty sandy fill with some dark brown sandy material with brick, stone and cement pieces
4			Soil sample composite from 1-3 feet
5			
6			
7			
8			
9			
10			
11			
12			

Comments: Approximately 3 feet wide by 3 feet long by 3-feet deep  
No potential native soil observed - all appeared to be fill.

No organic vapor observations



# TEST PIT LOG



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

Project: 624 River Road		Sheet: 1 of 1
Client: Visone Construction		Job Number:
Contractor: None - Client Heavy Equipment Operator		Location: 624 River Road, North Tonawanda, New York
Date Started: January 3, 2019		Ground Elevation:
Date Completed: January 3, 2019		Operator: L. Visone
Pit Number: Test Pit - TP-11		Geologist/Technician: P. Gorton
		Ground Water: NA

Depth (ft)	Sample		Description
	#	Type	
1			
2			
3			0-3 feet deep - silty sandy fill with some red-brown sandy material with brick, stone and cement pieces
4			Soil sample composite from 1-2 feet
5			
6			
7			
8			
9			
10			
11			
12			

Comments: Approximately 3 feet wide by 3 feet long by 3-feet deep  
No potential native soil observed - all appeared to be fill.

No organic vapor observations

# TEST PIT LOG



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

Project: 624 River Road		Sheet: 1 of 1
Client: Visone Construction		Job Number:
Contractor: None - Client Heavy Equipment Operator		Location: 624 River Road, North Tonawanda, New York
Date Started: January 3, 2019		Ground Elevation:
Date Completed: January 3, 2019		Operator: L. Visone
Pit Number: Test Pit - TP-12		Geologist/Technician: P. Gorton
		Ground Water: NA

Depth (ft)	Sample		Description
	#	Type	
1			
2			
3			0-3 feet deep - silty sandy fill with some red-brown sandy material with brick, stone and cement pieces. Some light brown clay
4			Soil sample composite from 1-3 feet
5			
6			
7			
8			
9			
10			
11			
12			

Comments: Approximately 3 feet wide by 3 feet long by 3-feet deep  
No potential native soil observed - all appeared to be fill.

No organic vapor observations

# TEST PIT LOG



1270 Niagara Street  
Buffalo, NY 14213  
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Project: 624 River Road		Sheet: 1 of 1
Client: Visone Construction		Job Number:
Contractor: None - Client Heavy Equipment Operator		Location: 624 River Road, North Tonawanda, New York
Date Started: January 3, 2019		Ground Elevation:
Date Completed: January 3, 2019		Operator: L. Visone
Pit Number: Test Pit - TP-13		Geologist/Technician: P. Gorton
		Ground Water: NA

Depth (ft)	Sample		Description
	#	Type	
1			
2			
3			0-3 feet deep - silty sandy fill with some red-brown sandy material with brick, stone and cement pieces. Some light brown clay and some redish sand at 2-3 feet
4			Soil sample composite from 1-2 feet
5			
6			
7			
8			
9			
10			
11			
12			

Comments: Approximately 3 feet wide by 3 feet long by 3-feet deep  
No potential native soil observed - all appeared to be fill.

No organic vapor observations

# TEST PIT LOG



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

Project: 624 River Road		Sheet: 1 of 1
Client: Visone Construction		Job Number:
Contractor: None - Client Heavy Equipment Operator		Location: 624 River Road, North Tonawanda, New York
Date Started: January 3, 2019		Ground Elevation:
Date Completed: January 3, 2019		Operator: L. Visone
Pit Number: Test Pit - TP-14		Geologist/Technician: P. Gorton
		Ground Water: NA

Depth (ft)	Sample		Description
	#	Type	
1			1-1.5 feet rock, brick, stone silty sand. Hard at 1.5 feet collected soil sample from 1-2 feet
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

Comments: Approximately 3 feet wide by 3 feet long by 1.5-2-feet deep  
No potential native soil observed - all appeared to be fill.

No organic vapor observations

# TEST PIT LOG



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

Project: 624 River Road		Sheet: 1 of 1
Client: Visone Construction		Job Number:
Contractor: None - Client Heavy Equipment Operator		Location: 624 River Road, North Tonawanda, New York
Date Started: January 3, 2019		Ground Elevation:
Date Completed: January 3, 2019		Operator: L. Visone
Pit Number: Test Pit - TP-15		Geologist/Technician: P. Gorton
		Ground Water: NA

Depth (ft)	Sample		Description
	#	Type	
1			0-1.0 feet rock, brick, stone silty sand. Hard at 1.0 feet
2			collected soil sample from 0-1 feet
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

Comments: Approximately 3 feet wide by 3 feet long by 1.0- 1.5 feet deep  
No potential native soil observed - all appeared to be fill.

No organic vapor observations

# TEST PIT LOG



1270 Niagara Street  
Buffalo, NY 14213  
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Project: 624 River Road		Sheet: 1 of 1
Client: Visone Construction		Job Number:
Contractor: None - Client Heavy Equipment Operator		Location: 624 River Road, North Tonawanda, New York
Date Started: January 3, 2019		Ground Elevation:
Date Completed: January 3, 2019		Operator: L. Visone
Pit Number: Test Pit - TP-16		Geologist/Technician: P. Gorton
		Ground Water: NA

Depth (ft)	Sample		Description
	#	Type	
1			0-0.5 feet - silty sandy topsoil
2			0.5-2 feet - dark brown-black sandy silt fill
3			2-3 feet - light brown clay-like fill
4			3-4 reddish-black silty sand
5			Collected samples 1-2 feet and at 3-4 feet
6			
7			
8			
9			
10			
11			
12			

Comments: Approximately 3 feet wide by 3 feet long by 4 feet deep  
No potential native soil observed - all appeared to be fill.

No organic vapor observations

# TEST PIT LOG



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

Project: 624 River Road		Sheet: 1 of 1
Client: Visone Construction		Job Number:
Contractor: None - Client Heavy Equipment Operator		Location: 624 River Road, North Tonawanda, New York
Date Started: January 3, 2019		Ground Elevation:
Date Completed: January 3, 2019		Operator: L. Visone
Pit Number: Test Pit - TP-17		Geologist/Technician: P. Gorton
		Ground Water: NA

Depth (ft)	Sample		Description
	#	Type	
1			
2			
3			0-3 feet - dark brown silt sand with some black asphalt-like material, stone and brick. Some redishish-black cinder material Collected soil sample from 1-2 feet
4			
5			
6			
7			
8			
9			
10			
11			
12			

Comments: Approximately 3 feet wide by 3 feet long by 3 feet deep  
No potential native soil observed - all appeared to be fill.  
  
No organic vapor observations



**PARADIGM**  
ENVIRONMENTAL SERVICES, INC.

*Analytical Report For*

**BE3**

*For Lab Project ID*

**190066**

*Referencing*

624 River Road Visone

*Prepared*

Friday, January 11, 2019

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 black ink, appearing to read "M. Deuschler", 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

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*Report Prepared Friday, January 11, 2019*

Page 1 of 46





**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP2 - 1-3 FT

**Lab Sample ID:** 190066-01

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

**Part 375 Metals (ICP)**

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	24.0	mg/Kg		1/8/2019 19:33
Barium	142	mg/Kg	M	1/8/2019 19:33
Beryllium	1.11	mg/Kg	D	1/8/2019 19:33
Cadmium	3.27	mg/Kg	M	1/8/2019 19:33
Chromium	82.4	mg/Kg	D	1/8/2019 19:33
Copper	193	mg/Kg		1/8/2019 19:33
Lead	166	mg/Kg	D	1/8/2019 19:33
Manganese	8800	mg/Kg	D	1/10/2019 11:27
Nickel	41.0	mg/Kg		1/8/2019 19:33
Selenium	7.30	mg/Kg	M	1/9/2019 20:14
Silver	5.69	mg/Kg		1/9/2019 20:14
Zinc	630	mg/Kg		1/9/2019 18:23

**Method Reference(s):** EPA 6010C  
EPA 3050B  
**Preparation Date:** 1/7/2019  
**Data File:** 190108B

**Mercury**

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.429	mg/Kg	DM	1/8/2019 10:15

**Method Reference(s):** EPA 7471B  
**Preparation Date:** 1/7/2019  
**Data File:** Hg190108A

**PCBs**

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0298	mg/Kg		1/9/2019 11:25
PCB-1221	< 0.0298	mg/Kg		1/9/2019 11:25
PCB-1232	< 0.0298	mg/Kg		1/9/2019 11:25
PCB-1242	< 0.0298	mg/Kg		1/9/2019 11:25
PCB-1248	< 0.0298	mg/Kg		1/9/2019 11:25

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP2 - 1-3 FT

**Lab Sample ID:** 190066-01

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

PCB-1254	<b>0.0931</b>	mg/Kg	1/9/2019	11:25
PCB-1260	< 0.0298	mg/Kg	1/9/2019	11:25
PCB-1262	< 0.0298	mg/Kg	1/9/2019	11:25
PCB-1268	< 0.0298	mg/Kg	1/9/2019	11:25

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	<b>24.8</b>	18 - 103		1/9/2019 11:25

**Method Reference(s):** EPA 8082A  
EPA 3546  
**Preparation Date:** 1/8/2019

**Chlorinated Pesticides**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
4,4-DDD	<b>6.30</b>	ug/Kg	P	1/8/2019 15:37
4,4-DDE	< 2.98	ug/Kg		1/8/2019 15:37
4,4-DDT	<b>4.51</b>	ug/Kg	P	1/8/2019 15:37
Aldrin	< 2.98	ug/Kg		1/8/2019 15:37
alpha-BHC	< 2.98	ug/Kg		1/8/2019 15:37
beta-BHC	< 2.98	ug/Kg		1/8/2019 15:37
cis-Chlordane	< 2.98	ug/Kg		1/8/2019 15:37
delta-BHC	< 2.98	ug/Kg		1/8/2019 15:37
Dieldrin	<b>7.41</b>	ug/Kg	P	1/8/2019 15:37
Endosulfan I	< 2.98	ug/Kg		1/8/2019 15:37
Endosulfan II	< 2.98	ug/Kg		1/8/2019 15:37
Endosulfan Sulfate	<b>12.0</b>	ug/Kg	P	1/8/2019 15:37
Endrin	< 2.98	ug/Kg		1/8/2019 15:37
Endrin Aldehyde	< 2.98	ug/Kg		1/8/2019 15:37
Endrin Ketone	<b>3.84</b>	ug/Kg	P	1/8/2019 15:37
gamma-BHC (Lindane)	< 2.98	ug/Kg		1/8/2019 15:37
Heptachlor	< 2.98	ug/Kg		1/8/2019 15:37
Heptachlor Epoxide	<b>6.27</b>	ug/Kg		1/8/2019 15:37
Methoxychlor	<b>5.90</b>	ug/Kg	P	1/8/2019 15:37
Toxaphene	< 29.8	ug/Kg		1/8/2019 15:37
trans-Chlordane	< 2.98	ug/Kg		1/8/2019 15:37

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP2 - 1-3 FT

**Lab Sample ID:** 190066-01

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	75.4	27.5 - 136		1/8/2019 15:37
Tetrachloro-m-xylene (1)	35.7	29.3 - 107		1/8/2019 15:37

**Method Reference(s):** EPA 8081B

EPA 3546

**Preparation Date:** 1/8/2019

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

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 306	ug/Kg		1/8/2019 20:05
1,2,4,5-Tetrachlorobenzene	< 306	ug/Kg		1/8/2019 20:05
1,2,4-Trichlorobenzene	< 306	ug/Kg		1/8/2019 20:05
1,2-Dichlorobenzene	< 306	ug/Kg		1/8/2019 20:05
1,3-Dichlorobenzene	< 306	ug/Kg		1/8/2019 20:05
1,4-Dichlorobenzene	< 306	ug/Kg		1/8/2019 20:05
2,2-Oxybis (1-chloropropane)	< 306	ug/Kg		1/8/2019 20:05
2,3,4,6-Tetrachlorophenol	< 306	ug/Kg		1/8/2019 20:05
2,4,5-Trichlorophenol	< 306	ug/Kg		1/8/2019 20:05
2,4,6-Trichlorophenol	< 306	ug/Kg		1/8/2019 20:05
2,4-Dichlorophenol	< 306	ug/Kg		1/8/2019 20:05
2,4-Dimethylphenol	< 306	ug/Kg		1/8/2019 20:05
2,4-Dinitrophenol	< 1230	ug/Kg		1/8/2019 20:05
2,4-Dinitrotoluene	< 306	ug/Kg		1/8/2019 20:05
2,6-Dinitrotoluene	< 306	ug/Kg		1/8/2019 20:05
2-Chloronaphthalene	< 306	ug/Kg		1/8/2019 20:05
2-Chlorophenol	< 306	ug/Kg		1/8/2019 20:05
2-Methylnaphthalene	< 306	ug/Kg		1/8/2019 20:05
2-Methylphenol	< 306	ug/Kg		1/8/2019 20:05
2-Nitroaniline	< 306	ug/Kg		1/8/2019 20:05
2-Nitrophenol	< 306	ug/Kg		1/8/2019 20:05
3&4-Methylphenol	< 306	ug/Kg		1/8/2019 20:05
3,3'-Dichlorobenzidine	< 306	ug/Kg		1/8/2019 20:05
3-Nitroaniline	< 306	ug/Kg		1/8/2019 20:05

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: 190066

Client: **BE3**

Project Reference: 624 River Road Visone

<b>Sample Identifier:</b>	TP2 - 1-3 FT		
<b>Lab Sample ID:</b>	190066-01	<b>Date Sampled:</b>	1/3/2019
<b>Matrix:</b>	Soil	<b>Date Received:</b>	1/4/2019
4,6-Dinitro-2-methylphenol	< 410	ug/Kg	1/8/2019 20:05
4-Bromophenyl phenyl ether	< 306	ug/Kg	1/8/2019 20:05
4-Chloro-3-methylphenol	< 306	ug/Kg	1/8/2019 20:05
4-Chloroaniline	< 306	ug/Kg	1/8/2019 20:05
4-Chlorophenyl phenyl ether	< 306	ug/Kg	1/8/2019 20:05
4-Nitroaniline	< 306	ug/Kg	1/8/2019 20:05
4-Nitrophenol	< 306	ug/Kg	1/8/2019 20:05
Acenaphthene	< 306	ug/Kg	1/8/2019 20:05
Acenaphthylene	<b>848</b>	ug/Kg	1/8/2019 20:05
Acetophenone	< 306	ug/Kg	1/8/2019 20:05
Anthracene	<b>529</b>	ug/Kg	1/8/2019 20:05
Atrazine	< 306	ug/Kg	1/8/2019 20:05
Benzaldehyde	< 306	ug/Kg	1/8/2019 20:05
Benzo (a) anthracene	<b>1930</b>	ug/Kg	1/8/2019 20:05
Benzo (a) pyrene	<b>2870</b>	ug/Kg	1/8/2019 20:05
Benzo (b) fluoranthene	<b>3910</b>	ug/Kg	1/8/2019 20:05
Benzo (g,h,i) perylene	<b>2410</b>	ug/Kg	1/8/2019 20:05
Benzo (k) fluoranthene	<b>1920</b>	ug/Kg	1/8/2019 20:05
Bis (2-chloroethoxy) methane	< 306	ug/Kg	1/8/2019 20:05
Bis (2-chloroethyl) ether	< 306	ug/Kg	1/8/2019 20:05
Bis (2-ethylhexyl) phthalate	< 306	ug/Kg	1/8/2019 20:05
Butylbenzylphthalate	< 306	ug/Kg	1/8/2019 20:05
Caprolactam	< 306	ug/Kg	1/8/2019 20:05
Carbazole	< 306	ug/Kg	1/8/2019 20:05
Chrysene	<b>2320</b>	ug/Kg	1/8/2019 20:05
Dibenz (a,h) anthracene	<b>590</b>	ug/Kg	1/8/2019 20:05
Dibenzofuran	< 306	ug/Kg	1/8/2019 20:05
Diethyl phthalate	< 306	ug/Kg	1/8/2019 20:05
Dimethyl phthalate	< 306	ug/Kg	1/8/2019 20:05
Di-n-butyl phthalate	< 306	ug/Kg	1/8/2019 20:05
Di-n-octylphthalate	< 306	ug/Kg	1/8/2019 20:05
Fluoranthene	<b>2750</b>	ug/Kg	1/8/2019 20:05

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP2 - 1-3 FT

**Lab Sample ID:** 190066-01

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

Fluorene	< 306	ug/Kg	1/8/2019	20:05
Hexachlorobenzene	< 306	ug/Kg	1/8/2019	20:05
Hexachlorobutadiene	< 306	ug/Kg	1/8/2019	20:05
Hexachlorocyclopentadiene	< 1230	ug/Kg	1/8/2019	20:05
Hexachloroethane	< 306	ug/Kg	1/8/2019	20:05
Indeno (1,2,3-cd) pyrene	<b>2180</b>	ug/Kg	1/8/2019	20:05
Isophorone	< 306	ug/Kg	1/8/2019	20:05
Naphthalene	< 306	ug/Kg	1/8/2019	20:05
Nitrobenzene	< 306	ug/Kg	1/8/2019	20:05
N-Nitroso-di-n-propylamine	< 306	ug/Kg	1/8/2019	20:05
N-Nitrosodiphenylamine	< 306	ug/Kg	1/8/2019	20:05
Pentachlorophenol	< 613	ug/Kg	1/8/2019	20:05
Phenanthrene	<b>497</b>	ug/Kg	1/8/2019	20:05
Phenol	< 306	ug/Kg	1/8/2019	20:05
Pyrene	<b>3360</b>	ug/Kg	1/8/2019	20:05

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2,4,6-Tribromophenol	<b>55.5</b>	31.6 - 97.7		1/8/2019 20:05
2-Fluorobiphenyl	<b>64.9</b>	32.3 - 86.7		1/8/2019 20:05
2-Fluorophenol	<b>47.9</b>	34.7 - 82.2		1/8/2019 20:05
Nitrobenzene-d5	<b>56.7</b>	28.6 - 81.3		1/8/2019 20:05
Phenol-d5	<b>52.6</b>	34.8 - 85.2		1/8/2019 20:05
Terphenyl-d14	<b>70.5</b>	37.3 - 102		1/8/2019 20:05

**Method Reference(s):** EPA 8270D  
EPA 3546  
**Preparation Date:** 1/7/2019  
**Data File:** B34933.D

**Total Cyanide**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Cyanide, Total	<b>1.55</b>	mg/Kg	M	1/10/2019

**Method Reference(s):** EPA 9014  
**Preparation Date:** 1/10/2019



**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP3 - 1-3 FT

**Lab Sample ID:** 190066-02

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

**Part 375 Metals (ICP)**

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	10.6	mg/Kg		1/8/2019 19:42
Barium	85.9	mg/Kg		1/8/2019 19:42
Beryllium	1.10	mg/Kg		1/8/2019 19:42
Cadmium	0.450	mg/Kg		1/8/2019 19:42
Chromium	14.8	mg/Kg		1/8/2019 19:42
Copper	30.1	mg/Kg		1/8/2019 19:42
Lead	50.7	mg/Kg		1/8/2019 19:42
Manganese	378	mg/Kg		1/8/2019 19:42
Nickel	14.9	mg/Kg		1/8/2019 19:42
Selenium	2.01	mg/Kg		1/9/2019 20:23
Silver	1.11	mg/Kg		1/8/2019 19:42
Zinc	119	mg/Kg		1/8/2019 19:42

**Method Reference(s):** EPA 6010C  
EPA 3050B  
**Preparation Date:** 1/7/2019  
**Data File:** 190108B

**Mercury**

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.0820	mg/Kg		1/8/2019 09:42

**Method Reference(s):** EPA 7471B  
**Preparation Date:** 1/7/2019  
**Data File:** Hg190108A

**PCBs**

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0341	mg/Kg		1/7/2019 15:30
PCB-1221	< 0.0341	mg/Kg		1/7/2019 15:30
PCB-1232	< 0.0341	mg/Kg		1/7/2019 15:30
PCB-1242	< 0.0341	mg/Kg		1/7/2019 15:30
PCB-1248	< 0.0341	mg/Kg		1/7/2019 15:30

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP3 - 1-3 FT

**Lab Sample ID:** 190066-02

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

PCB-1254	< 0.0341	mg/Kg	1/7/2019	15:30
PCB-1260	<b>0.0371</b>	mg/Kg	1/7/2019	15:30
PCB-1262	< 0.0341	mg/Kg	1/7/2019	15:30
PCB-1268	< 0.0341	mg/Kg	1/7/2019	15:30

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	77.8	18 - 103		1/7/2019 15:30

**Method Reference(s):** EPA 8082A  
EPA 3546  
**Preparation Date:** 1/7/2019

**Chlorinated Pesticides**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
4,4-DDD	< 2.83	ug/Kg		1/8/2019 15:53
4,4-DDE	< 2.83	ug/Kg		1/8/2019 15:53
4,4-DDT	< 2.83	ug/Kg		1/8/2019 15:53
Aldrin	< 2.83	ug/Kg		1/8/2019 15:53
alpha-BHC	< 2.83	ug/Kg		1/8/2019 15:53
beta-BHC	< 2.83	ug/Kg		1/8/2019 15:53
cis-Chlordane	< 2.83	ug/Kg		1/8/2019 15:53
delta-BHC	< 2.83	ug/Kg		1/8/2019 15:53
Dieldrin	< 2.83	ug/Kg		1/8/2019 15:53
Endosulfan I	< 2.83	ug/Kg		1/8/2019 15:53
Endosulfan II	< 2.83	ug/Kg		1/8/2019 15:53
Endosulfan Sulfate	< 2.83	ug/Kg		1/8/2019 15:53
Endrin	< 2.83	ug/Kg		1/8/2019 15:53
Endrin Aldehyde	< 2.83	ug/Kg		1/8/2019 15:53
Endrin Ketone	< 2.83	ug/Kg		1/8/2019 15:53
gamma-BHC (Lindane)	< 2.83	ug/Kg		1/8/2019 15:53
Heptachlor	< 2.83	ug/Kg		1/8/2019 15:53
Heptachlor Epoxide	< 2.83	ug/Kg		1/8/2019 15:53
Methoxychlor	< 2.83	ug/Kg		1/8/2019 15:53
Toxaphene	< 28.3	ug/Kg		1/8/2019 15:53
trans-Chlordane	< 2.83	ug/Kg		1/8/2019 15:53

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Client: **BE3**

Project Reference: 624 River Road Visone

Sample Identifier: TP3 - 1-3 FT

Lab Sample ID: 190066-02

Date Sampled: 1/3/2019

Matrix: Soil

Date Received: 1/4/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	37.1	27.5 - 136		1/8/2019 15:53
Tetrachloro-m-xylene (1)	49.5	29.3 - 107		1/8/2019 15:53

Method Reference(s): EPA 8081B

EPA 3546

Preparation Date: 1/8/2019

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

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 334	ug/Kg		1/8/2019 20:36
1,2,4,5-Tetrachlorobenzene	< 334	ug/Kg		1/8/2019 20:36
1,2,4-Trichlorobenzene	< 334	ug/Kg		1/8/2019 20:36
1,2-Dichlorobenzene	< 334	ug/Kg		1/8/2019 20:36
1,3-Dichlorobenzene	< 334	ug/Kg		1/8/2019 20:36
1,4-Dichlorobenzene	< 334	ug/Kg		1/8/2019 20:36
2,2-Oxybis (1-chloropropane)	< 334	ug/Kg		1/8/2019 20:36
2,3,4,6-Tetrachlorophenol	< 334	ug/Kg		1/8/2019 20:36
2,4,5-Trichlorophenol	< 334	ug/Kg		1/8/2019 20:36
2,4,6-Trichlorophenol	< 334	ug/Kg		1/8/2019 20:36
2,4-Dichlorophenol	< 334	ug/Kg		1/8/2019 20:36
2,4-Dimethylphenol	< 334	ug/Kg		1/8/2019 20:36
2,4-Dinitrophenol	< 1340	ug/Kg		1/8/2019 20:36
2,4-Dinitrotoluene	< 334	ug/Kg		1/8/2019 20:36
2,6-Dinitrotoluene	< 334	ug/Kg		1/8/2019 20:36
2-Chloronaphthalene	< 334	ug/Kg		1/8/2019 20:36
2-Chlorophenol	< 334	ug/Kg		1/8/2019 20:36
2-Methylnaphthalene	< 334	ug/Kg		1/8/2019 20:36
2-Methylphenol	< 334	ug/Kg		1/8/2019 20:36
2-Nitroaniline	< 334	ug/Kg		1/8/2019 20:36
2-Nitrophenol	< 334	ug/Kg		1/8/2019 20:36
3&4-Methylphenol	< 334	ug/Kg		1/8/2019 20:36
3,3'-Dichlorobenzidine	< 334	ug/Kg		1/8/2019 20:36
3-Nitroaniline	< 334	ug/Kg		1/8/2019 20:36

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Lab Project ID: 190066

Client: **BE3**

Project Reference: 624 River Road Visone

<b>Sample Identifier:</b>	TP3 - 1-3 FT			
<b>Lab Sample ID:</b>	190066-02		<b>Date Sampled:</b>	1/3/2019
<b>Matrix:</b>	Soil		<b>Date Received:</b>	1/4/2019
4,6-Dinitro-2-methylphenol	< 447	ug/Kg		1/8/2019 20:36
4-Bromophenyl phenyl ether	< 334	ug/Kg		1/8/2019 20:36
4-Chloro-3-methylphenol	< 334	ug/Kg		1/8/2019 20:36
4-Chloroaniline	< 334	ug/Kg		1/8/2019 20:36
4-Chlorophenyl phenyl ether	< 334	ug/Kg		1/8/2019 20:36
4-Nitroaniline	< 334	ug/Kg		1/8/2019 20:36
4-Nitrophenol	< 334	ug/Kg		1/8/2019 20:36
Acenaphthene	< 334	ug/Kg		1/8/2019 20:36
Acenaphthylene	< 334	ug/Kg		1/8/2019 20:36
Acetophenone	< 334	ug/Kg		1/8/2019 20:36
Anthracene	< 334	ug/Kg		1/8/2019 20:36
Atrazine	< 334	ug/Kg		1/8/2019 20:36
Benzaldehyde	< 334	ug/Kg		1/8/2019 20:36
Benzo (a) anthracene	< 334	ug/Kg		1/8/2019 20:36
Benzo (a) pyrene	< 334	ug/Kg		1/8/2019 20:36
Benzo (b) fluoranthene	< 334	ug/Kg		1/8/2019 20:36
Benzo (g,h,i) perylene	< 334	ug/Kg		1/8/2019 20:36
Benzo (k) fluoranthene	< 334	ug/Kg		1/8/2019 20:36
Bis (2-chloroethoxy) methane	< 334	ug/Kg		1/8/2019 20:36
Bis (2-chloroethyl) ether	< 334	ug/Kg		1/8/2019 20:36
Bis (2-ethylhexyl) phthalate	< 334	ug/Kg		1/8/2019 20:36
Butylbenzylphthalate	< 334	ug/Kg		1/8/2019 20:36
Caprolactam	< 334	ug/Kg		1/8/2019 20:36
Carbazole	< 334	ug/Kg		1/8/2019 20:36
Chrysene	< 334	ug/Kg		1/8/2019 20:36
Dibenz (a,h) anthracene	< 334	ug/Kg		1/8/2019 20:36
Dibenzofuran	< 334	ug/Kg		1/8/2019 20:36
Diethyl phthalate	< 334	ug/Kg		1/8/2019 20:36
Dimethyl phthalate	< 334	ug/Kg		1/8/2019 20:36
Di-n-butyl phthalate	< 334	ug/Kg		1/8/2019 20:36
Di-n-octylphthalate	< 334	ug/Kg		1/8/2019 20:36
Fluoranthene	< 334	ug/Kg		1/8/2019 20:36

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP3 - 1-3 FT

**Lab Sample ID:** 190066-02

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

Fluorene	< 334	ug/Kg	1/8/2019 20:36
Hexachlorobenzene	< 334	ug/Kg	1/8/2019 20:36
Hexachlorobutadiene	< 334	ug/Kg	1/8/2019 20:36
Hexachlorocyclopentadiene	< 1340	ug/Kg	1/8/2019 20:36
Hexachloroethane	< 334	ug/Kg	1/8/2019 20:36
Indeno (1,2,3-cd) pyrene	< 334	ug/Kg	1/8/2019 20:36
Isophorone	< 334	ug/Kg	1/8/2019 20:36
Naphthalene	< 334	ug/Kg	1/8/2019 20:36
Nitrobenzene	< 334	ug/Kg	1/8/2019 20:36
N-Nitroso-di-n-propylamine	< 334	ug/Kg	1/8/2019 20:36
N-Nitrosodiphenylamine	< 334	ug/Kg	1/8/2019 20:36
Pentachlorophenol	< 668	ug/Kg	1/8/2019 20:36
Phenanthrene	< 334	ug/Kg	1/8/2019 20:36
Phenol	< 334	ug/Kg	1/8/2019 20:36
Pyrene	< 334	ug/Kg	1/8/2019 20:36

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2,4,6-Tribromophenol	75.0	31.6 - 97.7		1/8/2019 20:36
2-Fluorobiphenyl	70.4	32.3 - 86.7		1/8/2019 20:36
2-Fluorophenol	62.4	34.7 - 82.2		1/8/2019 20:36
Nitrobenzene-d5	62.1	28.6 - 81.3		1/8/2019 20:36
Phenol-d5	62.5	34.8 - 85.2		1/8/2019 20:36
Terphenyl-d14	74.6	37.3 - 102		1/8/2019 20:36

**Method Reference(s):** EPA 8270D  
EPA 3546  
**Preparation Date:** 1/7/2019  
**Data File:** B34934.D

**Total Cyanide**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Cyanide, Total	< 0.561	mg/Kg		1/10/2019

**Method Reference(s):** EPA 9014  
**Preparation Date:** 1/10/2019



**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP6 - 1-2 FT

**Lab Sample ID:** 190066-03

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

**Part 375 Metals (ICP)**

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	9.11	mg/Kg		1/8/2019 19:46
Barium	110	mg/Kg		1/8/2019 19:46
Beryllium	2.37	mg/Kg		1/8/2019 19:46
Cadmium	0.558	mg/Kg		1/8/2019 19:46
Chromium	12.9	mg/Kg		1/8/2019 19:46
Copper	26.5	mg/Kg		1/8/2019 19:46
Lead	43.8	mg/Kg		1/8/2019 19:46
Manganese	2190	mg/Kg		1/9/2019 18:36
Nickel	9.32	mg/Kg		1/8/2019 19:46
Selenium	1.91	mg/Kg		1/9/2019 20:27
Silver	0.843	mg/Kg		1/8/2019 19:46
Zinc	144	mg/Kg		1/8/2019 19:46

**Method Reference(s):** EPA 6010C  
EPA 3050B  
**Preparation Date:** 1/7/2019  
**Data File:** 190108B

**Mercury**

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.236	mg/Kg		1/8/2019 09:50

**Method Reference(s):** EPA 7471B  
**Preparation Date:** 1/7/2019  
**Data File:** Hg190108A

**PCBs**

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0309	mg/Kg		1/10/2019 12:00
PCB-1221	< 0.0309	mg/Kg		1/10/2019 12:00
PCB-1232	< 0.0309	mg/Kg		1/10/2019 12:00
PCB-1242	< 0.0309	mg/Kg		1/10/2019 12:00
PCB-1248	< 0.0309	mg/Kg		1/10/2019 12:00

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Client: **BE3**

Project Reference: 624 River Road Visone

Sample Identifier: TP6 - 1-2 FT

Lab Sample ID: 190066-03

Date Sampled: 1/3/2019

Matrix: Soil

Date Received: 1/4/2019

PCB-1254	< 0.0309	mg/Kg	1/10/2019	12:00
PCB-1260	< 0.0309	mg/Kg	1/10/2019	12:00
PCB-1262	< 0.0309	mg/Kg	1/10/2019	12:00
PCB-1268	< 0.0309	mg/Kg	1/10/2019	12:00

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	31.4	18 - 103		1/10/2019 12:00

Method Reference(s): EPA 8082A  
EPA 3546  
Preparation Date: 1/8/2019

**Chlorinated Pesticides**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
4,4-DDD	< 3.09	ug/Kg		1/8/2019 14:20
4,4-DDE	< 3.09	ug/Kg		1/8/2019 14:20
4,4-DDT	< 3.09	ug/Kg		1/8/2019 14:20
Aldrin	< 3.09	ug/Kg		1/8/2019 14:20
alpha-BHC	< 3.09	ug/Kg		1/8/2019 14:20
beta-BHC	< 3.09	ug/Kg		1/8/2019 14:20
cis-Chlordane	10.0	ug/Kg	P	1/8/2019 14:20
delta-BHC	< 3.09	ug/Kg		1/8/2019 14:20
Dieldrin	< 3.09	ug/Kg		1/8/2019 14:20
Endosulfan I	< 3.09	ug/Kg		1/8/2019 14:20
Endosulfan II	< 3.09	ug/Kg		1/8/2019 14:20
Endosulfan Sulfate	12.8	ug/Kg	P	1/8/2019 14:20
Endrin	< 3.09	ug/Kg		1/8/2019 14:20
Endrin Aldehyde	< 3.09	ug/Kg		1/8/2019 14:20
Endrin Ketone	4.50	ug/Kg		1/8/2019 14:20
gamma-BHC (Lindane)	5.26	ug/Kg	P	1/8/2019 14:20
Heptachlor	< 3.09	ug/Kg		1/8/2019 14:20
Heptachlor Epoxide	< 3.09	ug/Kg		1/8/2019 14:20
Methoxychlor	< 3.09	ug/Kg		1/8/2019 14:20
Toxaphene	< 3.09	ug/Kg		1/8/2019 14:20
trans-Chlordane	< 3.09	ug/Kg		1/8/2019 14:20

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Client: **BE3**

Project Reference: 624 River Road Visone

Sample Identifier: TP6 - 1-2 FT

Lab Sample ID: 190066-03

Date Sampled: 1/3/2019

Matrix: Soil

Date Received: 1/4/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	64.6	27.5 - 136		1/8/2019 14:20
Tetrachloro-m-xylene (1)	48.1	29.3 - 107		1/8/2019 14:20

Method Reference(s): EPA 8081B  
EPA 3546  
Preparation Date: 1/8/2019

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

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 327	ug/Kg		1/8/2019 21:07
1,2,4,5-Tetrachlorobenzene	< 327	ug/Kg		1/8/2019 21:07
1,2,4-Trichlorobenzene	< 327	ug/Kg		1/8/2019 21:07
1,2-Dichlorobenzene	< 327	ug/Kg		1/8/2019 21:07
1,3-Dichlorobenzene	< 327	ug/Kg		1/8/2019 21:07
1,4-Dichlorobenzene	< 327	ug/Kg		1/8/2019 21:07
2,2-Oxybis (1-chloropropane)	< 327	ug/Kg		1/8/2019 21:07
2,3,4,6-Tetrachlorophenol	< 327	ug/Kg		1/8/2019 21:07
2,4,5-Trichlorophenol	< 327	ug/Kg		1/8/2019 21:07
2,4,6-Trichlorophenol	< 327	ug/Kg		1/8/2019 21:07
2,4-Dichlorophenol	< 327	ug/Kg		1/8/2019 21:07
2,4-Dimethylphenol	< 327	ug/Kg		1/8/2019 21:07
2,4-Dinitrophenol	< 1310	ug/Kg		1/8/2019 21:07
2,4-Dinitrotoluene	< 327	ug/Kg	D	1/8/2019 21:07
2,6-Dinitrotoluene	< 327	ug/Kg		1/8/2019 21:07
2-Chloronaphthalene	< 327	ug/Kg		1/8/2019 21:07
2-Chlorophenol	< 327	ug/Kg		1/8/2019 21:07
2-Methylnaphthalene	< 327	ug/Kg		1/8/2019 21:07
2-Methylphenol	< 327	ug/Kg		1/8/2019 21:07
2-Nitroaniline	< 327	ug/Kg		1/8/2019 21:07
2-Nitrophenol	< 327	ug/Kg		1/8/2019 21:07
3&4-Methylphenol	< 327	ug/Kg		1/8/2019 21:07
3,3'-Dichlorobenzidine	< 327	ug/Kg		1/8/2019 21:07
3-Nitroaniline	< 327	ug/Kg		1/8/2019 21:07

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Lab Project ID: 190066

Client: **BE3**

Project Reference: 624 River Road Visone

<b>Sample Identifier:</b>	TP6 - 1-2 FT			
<b>Lab Sample ID:</b>	190066-03		<b>Date Sampled:</b>	1/3/2019
<b>Matrix:</b>	Soil		<b>Date Received:</b>	1/4/2019
4,6-Dinitro-2-methylphenol	< 437	ug/Kg		1/8/2019 21:07
4-Bromophenyl phenyl ether	< 327	ug/Kg		1/8/2019 21:07
4-Chloro-3-methylphenol	< 327	ug/Kg		1/8/2019 21:07
4-Chloroaniline	< 327	ug/Kg		1/8/2019 21:07
4-Chlorophenyl phenyl ether	< 327	ug/Kg		1/8/2019 21:07
4-Nitroaniline	< 327	ug/Kg		1/8/2019 21:07
4-Nitrophenol	< 327	ug/Kg		1/8/2019 21:07
Acenaphthene	<b>755</b>	ug/Kg	DM	1/8/2019 21:07
Acenaphthylene	< 327	ug/Kg		1/8/2019 21:07
Acetophenone	< 327	ug/Kg		1/8/2019 21:07
Anthracene	<b>1500</b>	ug/Kg		1/8/2019 21:07
Atrazine	< 327	ug/Kg		1/8/2019 21:07
Benzaldehyde	< 327	ug/Kg		1/8/2019 21:07
Benzo (a) anthracene	<b>2790</b>	ug/Kg		1/8/2019 21:07
Benzo (a) pyrene	<b>2290</b>	ug/Kg		1/8/2019 21:07
Benzo (b) fluoranthene	<b>2160</b>	ug/Kg		1/8/2019 21:07
Benzo (g,h,i) perylene	<b>1220</b>	ug/Kg		1/8/2019 21:07
Benzo (k) fluoranthene	<b>1950</b>	ug/Kg		1/8/2019 21:07
Bis (2-chloroethoxy) methane	< 327	ug/Kg		1/8/2019 21:07
Bis (2-chloroethyl) ether	< 327	ug/Kg		1/8/2019 21:07
Bis (2-ethylhexyl) phthalate	< 327	ug/Kg		1/8/2019 21:07
Butylbenzylphthalate	< 327	ug/Kg		1/8/2019 21:07
Caprolactam	< 327	ug/Kg		1/8/2019 21:07
Carbazole	<b>679</b>	ug/Kg		1/8/2019 21:07
Chrysene	<b>2690</b>	ug/Kg		1/8/2019 21:07
Dibenz (a,h) anthracene	<b>514</b>	ug/Kg		1/8/2019 21:07
Dibenzofuran	<b>383</b>	ug/Kg		1/8/2019 21:07
Diethyl phthalate	< 327	ug/Kg		1/8/2019 21:07
Dimethyl phthalate	< 327	ug/Kg		1/8/2019 21:07
Di-n-butyl phthalate	< 327	ug/Kg		1/8/2019 21:07
Di-n-octylphthalate	< 327	ug/Kg		1/8/2019 21:07
Fluoranthene	<b>5500</b>	ug/Kg		1/8/2019 21:07

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP6 - 1-2 FT

**Lab Sample ID:** 190066-03

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

Fluorene	<b>724</b>	ug/Kg	1/8/2019 21:07
Hexachlorobenzene	< 327	ug/Kg	1/8/2019 21:07
Hexachlorobutadiene	< 327	ug/Kg	1/8/2019 21:07
Hexachlorocyclopentadiene	< 1310	ug/Kg	1/8/2019 21:07
Hexachloroethane	< 327	ug/Kg	1/8/2019 21:07
Indeno (1,2,3-cd) pyrene	<b>1360</b>	ug/Kg	1/8/2019 21:07
Isophorone	< 327	ug/Kg	1/8/2019 21:07
Naphthalene	< 327	ug/Kg	1/8/2019 21:07
Nitrobenzene	< 327	ug/Kg	1/8/2019 21:07
N-Nitroso-di-n-propylamine	< 327	ug/Kg	1/8/2019 21:07
N-Nitrosodiphenylamine	< 327	ug/Kg	1/8/2019 21:07
Pentachlorophenol	< 653	ug/Kg	1/8/2019 21:07
Phenanthrene	<b>4860</b>	ug/Kg	1/8/2019 21:07
Phenol	< 327	ug/Kg	1/8/2019 21:07
Pyrene	<b>4430</b>	ug/Kg	DM 1/8/2019 21:07

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2,4,6-Tribromophenol	<b>78.9</b>	31.6 - 97.7		1/8/2019 21:07
2-Fluorobiphenyl	<b>73.9</b>	32.3 - 86.7		1/8/2019 21:07
2-Fluorophenol	<b>64.8</b>	34.7 - 82.2		1/8/2019 21:07
Nitrobenzene-d5	<b>65.9</b>	28.6 - 81.3		1/8/2019 21:07
Phenol-d5	<b>65.5</b>	34.8 - 85.2		1/8/2019 21:07
Terphenyl-d14	<b>77.2</b>	37.3 - 102		1/8/2019 21:07

**Method Reference(s):** EPA 8270D  
EPA 3546  
**Preparation Date:** 1/7/2019  
**Data File:** B34935.D

**Total Cyanide**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Cyanide, Total	<b>1.78</b>	mg/Kg		1/10/2019

**Method Reference(s):** EPA 9014  
**Preparation Date:** 1/10/2019



**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP9 - 1-2 FT

**Lab Sample ID:** 190066-04

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

**Part 375 Metals (ICP)**

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	24.9	mg/Kg		1/8/2019 19:50
Barium	116	mg/Kg		1/8/2019 19:50
Beryllium	1.08	mg/Kg		1/8/2019 19:50
Cadmium	1.91	mg/Kg		1/8/2019 19:50
Chromium	24.2	mg/Kg		1/8/2019 19:50
Copper	50.2	mg/Kg		1/8/2019 19:50
Lead	105	mg/Kg		1/8/2019 19:50
Manganese	5300	mg/Kg		1/9/2019 18:49
Nickel	15.8	mg/Kg		1/8/2019 19:50
Selenium	5.20	mg/Kg		1/8/2019 19:50
Silver	2.24	mg/Kg		1/8/2019 19:50
Zinc	341	mg/Kg		1/8/2019 19:50

**Method Reference(s):** EPA 6010C  
EPA 3050B  
**Preparation Date:** 1/7/2019  
**Data File:** 190108B

**Mercury**

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.265	mg/Kg		1/8/2019 09:53

**Method Reference(s):** EPA 7471B  
**Preparation Date:** 1/7/2019  
**Data File:** Hg190108A

**PCBs**

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0326	mg/Kg		1/7/2019 17:02
PCB-1221	< 0.0326	mg/Kg		1/7/2019 17:02
PCB-1232	< 0.0326	mg/Kg		1/7/2019 17:02
PCB-1242	< 0.0326	mg/Kg		1/7/2019 17:02
PCB-1248	< 0.0326	mg/Kg		1/7/2019 17:02

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP9 - 1-2 FT

**Lab Sample ID:** 190066-04

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

PCB-1254	< 0.0326	mg/Kg	1/7/2019	17:02
PCB-1260	< 0.0326	mg/Kg	1/7/2019	17:02
PCB-1262	< 0.0326	mg/Kg	1/7/2019	17:02
PCB-1268	< 0.0326	mg/Kg	1/7/2019	17:02

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	33.7	18 - 103		1/7/2019 17:02

**Method Reference(s):** EPA 8082A  
EPA 3546  
**Preparation Date:** 1/7/2019

**Chlorinated Pesticides**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
4,4-DDD	< 3.26	ug/Kg		1/7/2019 18:24
4,4-DDE	< 3.26	ug/Kg		1/7/2019 18:24
4,4-DDT	< 3.26	ug/Kg		1/7/2019 18:24
Aldrin	< 3.26	ug/Kg		1/7/2019 18:24
alpha-BHC	< 3.26	ug/Kg		1/7/2019 18:24
beta-BHC	< 3.26	ug/Kg		1/7/2019 18:24
cis-Chlordane	< 3.26	ug/Kg		1/7/2019 18:24
delta-BHC	< 3.26	ug/Kg		1/7/2019 18:24
Dieldrin	< 3.26	ug/Kg		1/7/2019 18:24
Endosulfan I	< 3.26	ug/Kg		1/7/2019 18:24
Endosulfan II	< 3.26	ug/Kg		1/7/2019 18:24
Endosulfan Sulfate	< 3.26	ug/Kg		1/7/2019 18:24
Endrin	< 3.26	ug/Kg		1/7/2019 18:24
Endrin Aldehyde	< 3.26	ug/Kg		1/7/2019 18:24
Endrin Ketone	< 3.26	ug/Kg		1/7/2019 18:24
gamma-BHC (Lindane)	< 3.26	ug/Kg		1/7/2019 18:24
Heptachlor	< 3.26	ug/Kg		1/7/2019 18:24
Heptachlor Epoxide	< 3.26	ug/Kg		1/7/2019 18:24
Methoxychlor	< 3.26	ug/Kg		1/7/2019 18:24
Toxaphene	< 32.6	ug/Kg		1/7/2019 18:24
trans-Chlordane	< 3.26	ug/Kg		1/7/2019 18:24

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP9 - 1-2 FT

**Lab Sample ID:** 190066-04

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	2.35	27.5 - 136	*	1/7/2019 18:24
Tetrachloro-m-xylene (1)	42.0	29.3 - 107		1/7/2019 18:24

**Method Reference(s):** EPA 8081B

EPA 3546

**Preparation Date:** 1/7/2019

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

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 332	ug/Kg		1/8/2019 22:39
1,2,4,5-Tetrachlorobenzene	< 332	ug/Kg		1/8/2019 22:39
1,2,4-Trichlorobenzene	< 332	ug/Kg		1/8/2019 22:39
1,2-Dichlorobenzene	< 332	ug/Kg		1/8/2019 22:39
1,3-Dichlorobenzene	< 332	ug/Kg		1/8/2019 22:39
1,4-Dichlorobenzene	< 332	ug/Kg		1/8/2019 22:39
2,2-Oxybis (1-chloropropane)	< 332	ug/Kg		1/8/2019 22:39
2,3,4,6-Tetrachlorophenol	< 332	ug/Kg		1/8/2019 22:39
2,4,5-Trichlorophenol	< 332	ug/Kg		1/8/2019 22:39
2,4,6-Trichlorophenol	< 332	ug/Kg		1/8/2019 22:39
2,4-Dichlorophenol	< 332	ug/Kg		1/8/2019 22:39
2,4-Dimethylphenol	< 332	ug/Kg		1/8/2019 22:39
2,4-Dinitrophenol	< 1330	ug/Kg		1/8/2019 22:39
2,4-Dinitrotoluene	< 332	ug/Kg		1/8/2019 22:39
2,6-Dinitrotoluene	< 332	ug/Kg		1/8/2019 22:39
2-Chloronaphthalene	< 332	ug/Kg		1/8/2019 22:39
2-Chlorophenol	< 332	ug/Kg		1/8/2019 22:39
2-Methylnaphthalene	< 332	ug/Kg		1/8/2019 22:39
2-Methylphenol	< 332	ug/Kg		1/8/2019 22:39
2-Nitroaniline	< 332	ug/Kg		1/8/2019 22:39
2-Nitrophenol	< 332	ug/Kg		1/8/2019 22:39
3&4-Methylphenol	< 332	ug/Kg		1/8/2019 22:39
3,3'-Dichlorobenzidine	< 332	ug/Kg		1/8/2019 22:39
3-Nitroaniline	< 332	ug/Kg		1/8/2019 22:39

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**Client:** BE3
**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP9 - 1-2 FT

**Lab Sample ID:** 190066-04

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

4,6-Dinitro-2-methylphenol	< 444	ug/Kg	1/8/2019 22:39
4-Bromophenyl phenyl ether	< 332	ug/Kg	1/8/2019 22:39
4-Chloro-3-methylphenol	< 332	ug/Kg	1/8/2019 22:39
4-Chloroaniline	< 332	ug/Kg	1/8/2019 22:39
4-Chlorophenyl phenyl ether	< 332	ug/Kg	1/8/2019 22:39
4-Nitroaniline	< 332	ug/Kg	1/8/2019 22:39
4-Nitrophenol	< 332	ug/Kg	1/8/2019 22:39
Acenaphthene	< 332	ug/Kg	1/8/2019 22:39
Acenaphthylene	< 332	ug/Kg	1/8/2019 22:39
Acetophenone	< 332	ug/Kg	1/8/2019 22:39
Anthracene	< 332	ug/Kg	1/8/2019 22:39
Atrazine	< 332	ug/Kg	1/8/2019 22:39
Benzaldehyde	< 332	ug/Kg	1/8/2019 22:39
Benzo (a) anthracene	< 332	ug/Kg	1/8/2019 22:39
Benzo (a) pyrene	< 332	ug/Kg	1/8/2019 22:39
Benzo (b) fluoranthene	< 332	ug/Kg	1/8/2019 22:39
Benzo (g,h,i) perylene	< 332	ug/Kg	1/8/2019 22:39
Benzo (k) fluoranthene	< 332	ug/Kg	1/8/2019 22:39
Bis (2-chloroethoxy) methane	< 332	ug/Kg	1/8/2019 22:39
Bis (2-chloroethyl) ether	< 332	ug/Kg	1/8/2019 22:39
Bis (2-ethylhexyl) phthalate	< 332	ug/Kg	1/8/2019 22:39
Butylbenzylphthalate	< 332	ug/Kg	1/8/2019 22:39
Caprolactam	< 332	ug/Kg	1/8/2019 22:39
Carbazole	< 332	ug/Kg	1/8/2019 22:39
Chrysene	< 332	ug/Kg	1/8/2019 22:39
Dibenz (a,h) anthracene	< 332	ug/Kg	1/8/2019 22:39
Dibenzofuran	< 332	ug/Kg	1/8/2019 22:39
Diethyl phthalate	< 332	ug/Kg	1/8/2019 22:39
Dimethyl phthalate	< 332	ug/Kg	1/8/2019 22:39
Di-n-butyl phthalate	< 332	ug/Kg	1/8/2019 22:39
Di-n-octylphthalate	< 332	ug/Kg	1/8/2019 22:39
Fluoranthene	< 332	ug/Kg	1/8/2019 22:39

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP9 - 1-2 FT

**Lab Sample ID:** 190066-04

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

Fluorene	< 332	ug/Kg	1/8/2019 22:39
Hexachlorobenzene	< 332	ug/Kg	1/8/2019 22:39
Hexachlorobutadiene	< 332	ug/Kg	1/8/2019 22:39
Hexachlorocyclopentadiene	< 1330	ug/Kg	1/8/2019 22:39
Hexachloroethane	< 332	ug/Kg	1/8/2019 22:39
Indeno (1,2,3-cd) pyrene	< 332	ug/Kg	1/8/2019 22:39
Isophorone	< 332	ug/Kg	1/8/2019 22:39
Naphthalene	< 332	ug/Kg	1/8/2019 22:39
Nitrobenzene	< 332	ug/Kg	1/8/2019 22:39
N-Nitroso-di-n-propylamine	< 332	ug/Kg	1/8/2019 22:39
N-Nitrosodiphenylamine	< 332	ug/Kg	1/8/2019 22:39
Pentachlorophenol	< 663	ug/Kg	1/8/2019 22:39
Phenanthrene	<b>389</b>	ug/Kg	1/8/2019 22:39
Phenol	< 332	ug/Kg	1/8/2019 22:39
Pyrene	< 332	ug/Kg	1/8/2019 22:39

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2,4,6-Tribromophenol	<b>36.9</b>	31.6 - 97.7		1/8/2019 22:39
2-Fluorobiphenyl	<b>46.1</b>	32.3 - 86.7		1/8/2019 22:39
2-Fluorophenol	<b>35.6</b>	34.7 - 82.2		1/8/2019 22:39
Nitrobenzene-d5	<b>36.8</b>	28.6 - 81.3		1/8/2019 22:39
Phenol-d5	<b>38.4</b>	34.8 - 85.2		1/8/2019 22:39
Terphenyl-d14	<b>48.3</b>	37.3 - 102		1/8/2019 22:39

**Method Reference(s):** EPA 8270D  
EPA 3546  
**Preparation Date:** 1/7/2019  
**Data File:** B34938.D

**Total Cyanide**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Cyanide, Total	<b>1.27</b>	mg/Kg		1/10/2019

**Method Reference(s):** EPA 9014  
**Preparation Date:** 1/10/2019





**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP11 - 1-2 FT

**Lab Sample ID:** 190066-05

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

**Part 375 Metals (ICP)**

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	24.7	mg/Kg		1/8/2019 19:54
Barium	80.2	mg/Kg		1/8/2019 19:54
Beryllium	1.07	mg/Kg		1/8/2019 19:54
Cadmium	2.32	mg/Kg		1/8/2019 19:54
Chromium	37.4	mg/Kg		1/8/2019 19:54
Copper	57.2	mg/Kg		1/8/2019 19:54
Lead	168	mg/Kg		1/8/2019 19:54
Manganese	1430	mg/Kg		1/9/2019 18:53
Nickel	10.3	mg/Kg		1/8/2019 19:54
Selenium	5.63	mg/Kg		1/9/2019 20:31
Silver	2.91	mg/Kg		1/8/2019 19:54
Zinc	512	mg/Kg		1/8/2019 19:54

**Method Reference(s):** EPA 6010C  
EPA 3050B  
**Preparation Date:** 1/7/2019  
**Data File:** 190108B

**Mercury**

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.298	mg/Kg		1/8/2019 09:56

**Method Reference(s):** EPA 7471B  
**Preparation Date:** 1/7/2019  
**Data File:** Hg190108A

**PCBs**

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0338	mg/Kg		1/7/2019 17:25
PCB-1221	< 0.0338	mg/Kg		1/7/2019 17:25
PCB-1232	< 0.0338	mg/Kg		1/7/2019 17:25
PCB-1242	< 0.0338	mg/Kg		1/7/2019 17:25
PCB-1248	< 0.0338	mg/Kg		1/7/2019 17:25

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP11 - 1-2 FT

**Lab Sample ID:** 190066-05

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

PCB-1254	< 0.0338	mg/Kg	1/7/2019 17:25
PCB-1260	< 0.0338	mg/Kg	1/7/2019 17:25
PCB-1262	< 0.0338	mg/Kg	1/7/2019 17:25
PCB-1268	< 0.0338	mg/Kg	1/7/2019 17:25

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	40.3	18 - 103		1/7/2019 17:25

**Method Reference(s):** EPA 8082A  
EPA 3546  
**Preparation Date:** 1/7/2019

**Chlorinated Pesticides**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
4,4-DDD	< 3.38	ug/Kg		1/7/2019 18:39
4,4-DDE	< 3.38	ug/Kg		1/7/2019 18:39
4,4-DDT	< 3.38	ug/Kg		1/7/2019 18:39
Aldrin	< 3.38	ug/Kg		1/7/2019 18:39
alpha-BHC	< 3.38	ug/Kg		1/7/2019 18:39
beta-BHC	< 3.38	ug/Kg		1/7/2019 18:39
cis-Chlordane	< 3.38	ug/Kg		1/7/2019 18:39
delta-BHC	< 3.38	ug/Kg		1/7/2019 18:39
Dieldrin	< 3.38	ug/Kg		1/7/2019 18:39
Endosulfan I	< 3.38	ug/Kg		1/7/2019 18:39
Endosulfan II	< 3.38	ug/Kg		1/7/2019 18:39
Endosulfan Sulfate	< 3.38	ug/Kg		1/7/2019 18:39
Endrin	< 3.38	ug/Kg		1/7/2019 18:39
Endrin Aldehyde	< 3.38	ug/Kg		1/7/2019 18:39
Endrin Ketone	< 3.38	ug/Kg		1/7/2019 18:39
gamma-BHC (Lindane)	< 3.38	ug/Kg		1/7/2019 18:39
Heptachlor	< 3.38	ug/Kg		1/7/2019 18:39
Heptachlor Epoxide	< 3.38	ug/Kg		1/7/2019 18:39
Methoxychlor	< 3.38	ug/Kg		1/7/2019 18:39
Toxaphene	< 33.8	ug/Kg		1/7/2019 18:39
trans-Chlordane	< 3.38	ug/Kg		1/7/2019 18:39

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Lab Project ID: 190066

Client: **BE3**

Project Reference: 624 River Road Visone

Sample Identifier: TP11 - 1-2 FT

Lab Sample ID: 190066-05

Date Sampled: 1/3/2019

Matrix: Soil

Date Received: 1/4/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	5.71	27.5 - 136	*	1/7/2019 18:39
Tetrachloro-m-xylene (1)	47.0	29.3 - 107		1/7/2019 18:39

Method Reference(s): EPA 8081B

EPA 3546

Preparation Date: 1/7/2019

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

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 328	ug/Kg		1/8/2019 23:10
1,2,4,5-Tetrachlorobenzene	< 328	ug/Kg		1/8/2019 23:10
1,2,4-Trichlorobenzene	< 328	ug/Kg		1/8/2019 23:10
1,2-Dichlorobenzene	< 328	ug/Kg		1/8/2019 23:10
1,3-Dichlorobenzene	< 328	ug/Kg		1/8/2019 23:10
1,4-Dichlorobenzene	< 328	ug/Kg		1/8/2019 23:10
2,2-Oxybis (1-chloropropane)	< 328	ug/Kg		1/8/2019 23:10
2,3,4,6-Tetrachlorophenol	< 328	ug/Kg		1/8/2019 23:10
2,4,5-Trichlorophenol	< 328	ug/Kg		1/8/2019 23:10
2,4,6-Trichlorophenol	< 328	ug/Kg		1/8/2019 23:10
2,4-Dichlorophenol	< 328	ug/Kg		1/8/2019 23:10
2,4-Dimethylphenol	< 328	ug/Kg		1/8/2019 23:10
2,4-Dinitrophenol	< 1310	ug/Kg		1/8/2019 23:10
2,4-Dinitrotoluene	< 328	ug/Kg		1/8/2019 23:10
2,6-Dinitrotoluene	< 328	ug/Kg		1/8/2019 23:10
2-Chloronaphthalene	< 328	ug/Kg		1/8/2019 23:10
2-Chlorophenol	< 328	ug/Kg		1/8/2019 23:10
2-Methylnapthalene	< 328	ug/Kg		1/8/2019 23:10
2-Methylphenol	< 328	ug/Kg		1/8/2019 23:10
2-Nitroaniline	< 328	ug/Kg		1/8/2019 23:10
2-Nitrophenol	< 328	ug/Kg		1/8/2019 23:10
3&4-Methylphenol	< 328	ug/Kg		1/8/2019 23:10
3,3'-Dichlorobenzidine	< 328	ug/Kg		1/8/2019 23:10
3-Nitroaniline	< 328	ug/Kg		1/8/2019 23:10

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Lab Project ID: 190066

Client: **BE3**

Project Reference: 624 River Road Visone

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<b>Sample Identifier:</b>	TP11 - 1-2 FT			
<b>Lab Sample ID:</b>	190066-05		<b>Date Sampled:</b>	1/3/2019
<b>Matrix:</b>	Soil		<b>Date Received:</b>	1/4/2019

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4,6-Dinitro-2-methylphenol	< 440	ug/Kg	1/8/2019	23:10
4-Bromophenyl phenyl ether	< 328	ug/Kg	1/8/2019	23:10
4-Chloro-3-methylphenol	< 328	ug/Kg	1/8/2019	23:10
4-Chloroaniline	< 328	ug/Kg	1/8/2019	23:10
4-Chlorophenyl phenyl ether	< 328	ug/Kg	1/8/2019	23:10
4-Nitroaniline	< 328	ug/Kg	1/8/2019	23:10
4-Nitrophenol	< 328	ug/Kg	1/8/2019	23:10
Acenaphthene	< 328	ug/Kg	1/8/2019	23:10
Acenaphthylene	< 328	ug/Kg	1/8/2019	23:10
Acetophenone	< 328	ug/Kg	1/8/2019	23:10
Anthracene	< 328	ug/Kg	1/8/2019	23:10
Atrazine	< 328	ug/Kg	1/8/2019	23:10
Benzaldehyde	< 328	ug/Kg	1/8/2019	23:10
Benzo (a) anthracene	< 328	ug/Kg	1/8/2019	23:10
Benzo (a) pyrene	< 328	ug/Kg	1/8/2019	23:10
Benzo (b) fluoranthene	< 328	ug/Kg	1/8/2019	23:10
Benzo (g,h,i) perylene	< 328	ug/Kg	1/8/2019	23:10
Benzo (k) fluoranthene	< 328	ug/Kg	1/8/2019	23:10
Bis (2-chloroethoxy) methane	< 328	ug/Kg	1/8/2019	23:10
Bis (2-chloroethyl) ether	< 328	ug/Kg	1/8/2019	23:10
Bis (2-ethylhexyl) phthalate	< 328	ug/Kg	1/8/2019	23:10
Butylbenzylphthalate	< 328	ug/Kg	1/8/2019	23:10
Caprolactam	< 328	ug/Kg	1/8/2019	23:10
Carbazole	< 328	ug/Kg	1/8/2019	23:10
Chrysene	< 328	ug/Kg	1/8/2019	23:10
Dibenz (a,h) anthracene	< 328	ug/Kg	1/8/2019	23:10
Dibenzofuran	< 328	ug/Kg	1/8/2019	23:10
Diethyl phthalate	< 328	ug/Kg	1/8/2019	23:10
Dimethyl phthalate	< 328	ug/Kg	1/8/2019	23:10
Di-n-butyl phthalate	< 328	ug/Kg	1/8/2019	23:10
Di-n-octylphthalate	< 328	ug/Kg	1/8/2019	23:10
Fluoranthene	< 328	ug/Kg	1/8/2019	23:10

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP11 - 1-2 FT

**Lab Sample ID:** 190066-05

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

Fluorene	< 328	ug/Kg	1/8/2019	23:10
Hexachlorobenzene	< 328	ug/Kg	1/8/2019	23:10
Hexachlorobutadiene	< 328	ug/Kg	1/8/2019	23:10
Hexachlorocyclopentadiene	< 1310	ug/Kg	1/8/2019	23:10
Hexachloroethane	< 328	ug/Kg	1/8/2019	23:10
Indeno (1,2,3-cd) pyrene	< 328	ug/Kg	1/8/2019	23:10
Isophorone	< 328	ug/Kg	1/8/2019	23:10
Naphthalene	< 328	ug/Kg	1/8/2019	23:10
Nitrobenzene	< 328	ug/Kg	1/8/2019	23:10
N-Nitroso-di-n-propylamine	< 328	ug/Kg	1/8/2019	23:10
N-Nitrosodiphenylamine	< 328	ug/Kg	1/8/2019	23:10
Pentachlorophenol	< 657	ug/Kg	1/8/2019	23:10
Phenanthrene	< 328	ug/Kg	1/8/2019	23:10
Phenol	< 328	ug/Kg	1/8/2019	23:10
Pyrene	< 328	ug/Kg	1/8/2019	23:10

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2,4,6-Tribromophenol	42.4	31.6 - 97.7		1/8/2019 23:10
2-Fluorobiphenyl	54.5	32.3 - 86.7		1/8/2019 23:10
2-Fluorophenol	42.2	34.7 - 82.2		1/8/2019 23:10
Nitrobenzene-d5	48.1	28.6 - 81.3		1/8/2019 23:10
Phenol-d5	45.4	34.8 - 85.2		1/8/2019 23:10
Terphenyl-d14	56.4	37.3 - 102		1/8/2019 23:10

**Method Reference(s):** EPA 8270D  
EPA 3546  
**Preparation Date:** 1/7/2019  
**Data File:** B34939.D

**Total Cyanide**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Cyanide, Total	0.710	mg/Kg		1/10/2019

**Method Reference(s):** EPA 9014  
**Preparation Date:** 1/10/2019



**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP14 - 1-2 FT

**Lab Sample ID:** 190066-06

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

**Part 375 Metals (ICP)**

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	4.05	mg/Kg		1/8/2019 20:05
Barium	23.8	mg/Kg		1/8/2019 20:05
Beryllium	< 0.266	mg/Kg		1/8/2019 20:05
Cadmium	0.452	mg/Kg		1/8/2019 20:05
Chromium	5.25	mg/Kg		1/8/2019 20:05
Copper	8.44	mg/Kg		1/8/2019 20:05
Lead	24.0	mg/Kg		1/8/2019 20:05
Manganese	943	mg/Kg		1/9/2019 18:58
Nickel	6.59	mg/Kg		1/8/2019 20:05
Selenium	< 1.06	mg/Kg		1/8/2019 20:05
Silver	< 0.531	mg/Kg		1/8/2019 20:05
Zinc	108	mg/Kg		1/8/2019 20:05

**Method Reference(s):** EPA 6010C  
EPA 3050B  
**Preparation Date:** 1/7/2019  
**Data File:** 190108B

**Mercury**

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.0936	mg/Kg		1/8/2019 10:00

**Method Reference(s):** EPA 7471B  
**Preparation Date:** 1/7/2019  
**Data File:** Hg190108A

**PCBs**

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0280	mg/Kg		1/7/2019 17:48
PCB-1221	< 0.0280	mg/Kg		1/7/2019 17:48
PCB-1232	< 0.0280	mg/Kg		1/7/2019 17:48
PCB-1242	< 0.0280	mg/Kg		1/7/2019 17:48
PCB-1248	< 0.0280	mg/Kg		1/7/2019 17:48

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP14 - 1-2 FT

**Lab Sample ID:** 190066-06

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

PCB-1254	< 0.0280	mg/Kg	1/7/2019 17:48
PCB-1260	< 0.0280	mg/Kg	1/7/2019 17:48
PCB-1262	< 0.0280	mg/Kg	1/7/2019 17:48
PCB-1268	< 0.0280	mg/Kg	1/7/2019 17:48

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	55.7	18 - 103		1/7/2019 17:48

**Method Reference(s):** EPA 8082A  
EPA 3546  
**Preparation Date:** 1/7/2019

**Chlorinated Pesticides**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
4,4-DDD	< 2.80	ug/Kg		1/7/2019 18:55
4,4-DDE	< 2.80	ug/Kg		1/7/2019 18:55
4,4-DDT	< 2.80	ug/Kg		1/7/2019 18:55
Aldrin	< 2.80	ug/Kg		1/7/2019 18:55
alpha-BHC	< 2.80	ug/Kg		1/7/2019 18:55
beta-BHC	< 2.80	ug/Kg		1/7/2019 18:55
cis-Chlordane	< 2.80	ug/Kg		1/7/2019 18:55
delta-BHC	< 2.80	ug/Kg		1/7/2019 18:55
Dieldrin	< 2.80	ug/Kg		1/7/2019 18:55
Endosulfan I	< 2.80	ug/Kg		1/7/2019 18:55
Endosulfan II	< 2.80	ug/Kg		1/7/2019 18:55
Endosulfan Sulfate	< 2.80	ug/Kg		1/7/2019 18:55
Endrin	< 2.80	ug/Kg		1/7/2019 18:55
Endrin Aldehyde	< 2.80	ug/Kg		1/7/2019 18:55
Endrin Ketone	< 2.80	ug/Kg		1/7/2019 18:55
gamma-BHC (Lindane)	< 2.80	ug/Kg		1/7/2019 18:55
Heptachlor	< 2.80	ug/Kg		1/7/2019 18:55
Heptachlor Epoxide	< 2.80	ug/Kg		1/7/2019 18:55
Methoxychlor	< 2.80	ug/Kg		1/7/2019 18:55
Toxaphene	< 28.0	ug/Kg		1/7/2019 18:55
trans-Chlordane	< 2.80	ug/Kg		1/7/2019 18:55

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP14 - 1-2 FT

**Lab Sample ID:** 190066-06

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	4.04	27.5 - 136	*	1/7/2019 18:55
Tetrachloro-m-xylene (1)	73.1	29.3 - 107		1/7/2019 18:55

**Method Reference(s):** EPA 8081B

EPA 3546

**Preparation Date:** 1/7/2019

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

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 1520	ug/Kg		1/8/2019 23:41
1,2,4,5-Tetrachlorobenzene	< 1520	ug/Kg		1/8/2019 23:41
1,2,4-Trichlorobenzene	< 1520	ug/Kg		1/8/2019 23:41
1,2-Dichlorobenzene	< 1520	ug/Kg		1/8/2019 23:41
1,3-Dichlorobenzene	< 1520	ug/Kg		1/8/2019 23:41
1,4-Dichlorobenzene	< 1520	ug/Kg		1/8/2019 23:41
2,2-Oxybis (1-chloropropane)	< 1520	ug/Kg		1/8/2019 23:41
2,3,4,6-Tetrachlorophenol	< 1520	ug/Kg		1/8/2019 23:41
2,4,5-Trichlorophenol	< 1520	ug/Kg		1/8/2019 23:41
2,4,6-Trichlorophenol	< 1520	ug/Kg		1/8/2019 23:41
2,4-Dichlorophenol	< 1520	ug/Kg		1/8/2019 23:41
2,4-Dimethylphenol	< 1520	ug/Kg		1/8/2019 23:41
2,4-Dinitrophenol	< 6100	ug/Kg		1/8/2019 23:41
2,4-Dinitrotoluene	< 1520	ug/Kg		1/8/2019 23:41
2,6-Dinitrotoluene	< 1520	ug/Kg		1/8/2019 23:41
2-Chloronaphthalene	< 1520	ug/Kg		1/8/2019 23:41
2-Chlorophenol	< 1520	ug/Kg		1/8/2019 23:41
2-Methylnaphthalene	< 1520	ug/Kg		1/8/2019 23:41
2-Methylphenol	< 1520	ug/Kg		1/8/2019 23:41
2-Nitroaniline	< 1520	ug/Kg		1/8/2019 23:41
2-Nitrophenol	< 1520	ug/Kg		1/8/2019 23:41
3&4-Methylphenol	< 1520	ug/Kg		1/8/2019 23:41
3,3'-Dichlorobenzidine	< 1520	ug/Kg		1/8/2019 23:41
3-Nitroaniline	< 1520	ug/Kg		1/8/2019 23:41

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**Client:** BE3
**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP14 - 1-2 FT

**Lab Sample ID:** 190066-06

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

4,6-Dinitro-2-methylphenol	< 2040	ug/Kg	1/8/2019 23:41
4-Bromophenyl phenyl ether	< 1520	ug/Kg	1/8/2019 23:41
4-Chloro-3-methylphenol	< 1520	ug/Kg	1/8/2019 23:41
4-Chloroaniline	< 1520	ug/Kg	1/8/2019 23:41
4-Chlorophenyl phenyl ether	< 1520	ug/Kg	1/8/2019 23:41
4-Nitroaniline	< 1520	ug/Kg	1/8/2019 23:41
4-Nitrophenol	< 1520	ug/Kg	1/8/2019 23:41
Acenaphthene	< 1520	ug/Kg	1/8/2019 23:41
Acenaphthylene	< 1520	ug/Kg	1/8/2019 23:41
Acetophenone	< 1520	ug/Kg	1/8/2019 23:41
Anthracene	< 1520	ug/Kg	1/8/2019 23:41
Atrazine	< 1520	ug/Kg	1/8/2019 23:41
Benzaldehyde	< 1520	ug/Kg	1/8/2019 23:41
Benzo (a) anthracene	< 1520	ug/Kg	1/8/2019 23:41
Benzo (a) pyrene	< 1520	ug/Kg	1/8/2019 23:41
Benzo (b) fluoranthene	< 1520	ug/Kg	1/8/2019 23:41
Benzo (g,h,i) perylene	< 1520	ug/Kg	1/8/2019 23:41
Benzo (k) fluoranthene	< 1520	ug/Kg	1/8/2019 23:41
Bis (2-chloroethoxy) methane	< 1520	ug/Kg	1/8/2019 23:41
Bis (2-chloroethyl) ether	< 1520	ug/Kg	1/8/2019 23:41
Bis (2-ethylhexyl) phthalate	< 1520	ug/Kg	1/8/2019 23:41
Butylbenzylphthalate	< 1520	ug/Kg	1/8/2019 23:41
Caprolactam	< 1520	ug/Kg	1/8/2019 23:41
Carbazole	< 1520	ug/Kg	1/8/2019 23:41
Chrysene	< 1520	ug/Kg	1/8/2019 23:41
Dibenz (a,h) anthracene	< 1520	ug/Kg	1/8/2019 23:41
Dibenzofuran	< 1520	ug/Kg	1/8/2019 23:41
Diethyl phthalate	< 1520	ug/Kg	1/8/2019 23:41
Dimethyl phthalate	< 1520	ug/Kg	1/8/2019 23:41
Di-n-butyl phthalate	< 1520	ug/Kg	1/8/2019 23:41
Di-n-octylphthalate	< 1520	ug/Kg	1/8/2019 23:41
Fluoranthene	< 1520	ug/Kg	1/8/2019 23:41

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP14 - 1-2 FT

**Lab Sample ID:** 190066-06

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

Fluorene	< 1520	ug/Kg	1/8/2019	23:41
Hexachlorobenzene	< 1520	ug/Kg	1/8/2019	23:41
Hexachlorobutadiene	< 1520	ug/Kg	1/8/2019	23:41
Hexachlorocyclopentadiene	< 6100	ug/Kg	1/8/2019	23:41
Hexachloroethane	< 1520	ug/Kg	1/8/2019	23:41
Indeno (1,2,3-cd) pyrene	< 1520	ug/Kg	1/8/2019	23:41
Isophorone	< 1520	ug/Kg	1/8/2019	23:41
Naphthalene	< 1520	ug/Kg	1/8/2019	23:41
Nitrobenzene	< 1520	ug/Kg	1/8/2019	23:41
N-Nitroso-di-n-propylamine	< 1520	ug/Kg	1/8/2019	23:41
N-Nitrosodiphenylamine	< 1520	ug/Kg	1/8/2019	23:41
Pentachlorophenol	< 3050	ug/Kg	1/8/2019	23:41
Phenanthrene	< 1520	ug/Kg	1/8/2019	23:41
Phenol	< 1520	ug/Kg	1/8/2019	23:41
Pyrene	< 1520	ug/Kg	1/8/2019	23:41

<b>Surrogate</b>	<b>Percent Recovery</b>	<b>Limits</b>	<b>Outliers</b>	<b>Date Analyzed</b>
2,4,6-Tribromophenol	48.2	31.6 - 97.7		1/8/2019 23:41
2-Fluorobiphenyl	47.3	32.3 - 86.7		1/8/2019 23:41
2-Fluorophenol	43.5	34.7 - 82.2		1/8/2019 23:41
Nitrobenzene-d5	41.4	28.6 - 81.3		1/8/2019 23:41
Phenol-d5	43.9	34.8 - 85.2		1/8/2019 23:41
Terphenyl-d14	49.6	37.3 - 102		1/8/2019 23:41

Reporting limit elevated due to sample matrix

**Method Reference(s):** EPA 8270D

EPA 3546

**Preparation Date:** 1/7/2019

**Data File:** B34940.D

**Total Cyanide**

<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>Qualifier</b>	<b>Date Analyzed</b>
Cyanide, Total	< 0.547	mg/Kg		1/10/2019

**Method Reference(s):** EPA 9014

**Preparation Date:** 1/10/2019

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP15 - 0-1 FT

**Lab Sample ID:** 190066-07

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

**Part 375 Metals (ICP)**

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	6.09	mg/Kg		1/8/2019 20:09
Barium	32.2	mg/Kg		1/8/2019 20:09
Beryllium	< 0.274	mg/Kg		1/8/2019 20:09
Cadmium	0.321	mg/Kg		1/8/2019 20:09
Chromium	7.11	mg/Kg		1/8/2019 20:09
Copper	11.5	mg/Kg		1/8/2019 20:09
Lead	42.7	mg/Kg		1/8/2019 20:09
Manganese	1130	mg/Kg		1/9/2019 19:02
Nickel	6.58	mg/Kg		1/8/2019 20:09
Selenium	< 1.10	mg/Kg		1/8/2019 20:09
Silver	< 0.548	mg/Kg		1/8/2019 20:09
Zinc	70.2	mg/Kg		1/8/2019 20:09

**Method Reference(s):** EPA 6010C  
EPA 3050B  
**Preparation Date:** 1/7/2019  
**Data File:** 190108B

**Mercury**

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	11.4	mg/Kg		1/8/2019 10:29

**Method Reference(s):** EPA 7471B  
**Preparation Date:** 1/7/2019  
**Data File:** Hg190108A

**PCBs**

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0306	mg/Kg		1/7/2019 18:11
PCB-1221	< 0.0306	mg/Kg		1/7/2019 18:11
PCB-1232	< 0.0306	mg/Kg		1/7/2019 18:11
PCB-1242	< 0.0306	mg/Kg		1/7/2019 18:11
PCB-1248	< 0.0306	mg/Kg		1/7/2019 18:11

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP15 - 0-1 FT

**Lab Sample ID:** 190066-07

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

PCB-1254	< 0.0306	mg/Kg	1/7/2019	18:11
PCB-1260	< 0.0306	mg/Kg	1/7/2019	18:11
PCB-1262	< 0.0306	mg/Kg	1/7/2019	18:11
PCB-1268	< 0.0306	mg/Kg	1/7/2019	18:11

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	47.9	18 - 103		1/7/2019 18:11

**Method Reference(s):** EPA 8082A  
EPA 3546  
**Preparation Date:** 1/7/2019

**Chlorinated Pesticides**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
4,4-DDD	< 3.06	ug/Kg		1/7/2019 19:10
4,4-DDE	< 3.06	ug/Kg		1/7/2019 19:10
4,4-DDT	< 3.06	ug/Kg		1/7/2019 19:10
Aldrin	< 3.06	ug/Kg		1/7/2019 19:10
alpha-BHC	< 3.06	ug/Kg		1/7/2019 19:10
beta-BHC	< 3.06	ug/Kg		1/7/2019 19:10
cis-Chlordane	< 3.06	ug/Kg		1/7/2019 19:10
delta-BHC	< 3.06	ug/Kg		1/7/2019 19:10
Dieldrin	< 3.06	ug/Kg		1/7/2019 19:10
Endosulfan I	< 3.06	ug/Kg		1/7/2019 19:10
Endosulfan II	< 3.06	ug/Kg		1/7/2019 19:10
Endosulfan Sulfate	< 3.06	ug/Kg		1/7/2019 19:10
Endrin	< 3.06	ug/Kg		1/7/2019 19:10
Endrin Aldehyde	< 3.06	ug/Kg		1/7/2019 19:10
Endrin Ketone	< 3.06	ug/Kg		1/7/2019 19:10
gamma-BHC (Lindane)	< 3.06	ug/Kg		1/7/2019 19:10
Heptachlor	< 3.06	ug/Kg		1/7/2019 19:10
Heptachlor Epoxide	< 3.06	ug/Kg		1/7/2019 19:10
Methoxychlor	< 3.06	ug/Kg		1/7/2019 19:10
Toxaphene	< 30.6	ug/Kg		1/7/2019 19:10
trans-Chlordane	< 3.06	ug/Kg		1/7/2019 19:10

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**Client:** BE3
**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP15 - 0-1 FT

**Lab Sample ID:** 190066-07

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

<b>Surrogate</b>	<b>Percent Recovery</b>	<b>Limits</b>	<b>Outliers</b>	<b>Date Analyzed</b>	
Decachlorobiphenyl (1)	5.12	27.5 - 136	*	1/7/2019	19:10
Tetrachloro-m-xylene (1)	68.1	29.3 - 107		1/7/2019	19:10

**Method Reference(s):** EPA 8081B

EPA 3546

**Preparation Date:** 1/7/2019

**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	< 1600	ug/Kg		1/9/2019 00:12
1,2,4,5-Tetrachlorobenzene	< 1600	ug/Kg		1/9/2019 00:12
1,2,4-Trichlorobenzene	< 1600	ug/Kg		1/9/2019 00:12
1,2-Dichlorobenzene	< 1600	ug/Kg		1/9/2019 00:12
1,3-Dichlorobenzene	< 1600	ug/Kg		1/9/2019 00:12
1,4-Dichlorobenzene	< 1600	ug/Kg		1/9/2019 00:12
2,2-Oxybis (1-chloropropane)	< 1600	ug/Kg		1/9/2019 00:12
2,3,4,6-Tetrachlorophenol	< 1600	ug/Kg		1/9/2019 00:12
2,4,5-Trichlorophenol	< 1600	ug/Kg		1/9/2019 00:12
2,4,6-Trichlorophenol	< 1600	ug/Kg		1/9/2019 00:12
2,4-Dichlorophenol	< 1600	ug/Kg		1/9/2019 00:12
2,4-Dimethylphenol	< 1600	ug/Kg		1/9/2019 00:12
2,4-Dinitrophenol	< 6380	ug/Kg		1/9/2019 00:12
2,4-Dinitrotoluene	< 1600	ug/Kg		1/9/2019 00:12
2,6-Dinitrotoluene	< 1600	ug/Kg		1/9/2019 00:12
2-Chloronaphthalene	< 1600	ug/Kg		1/9/2019 00:12
2-Chlorophenol	< 1600	ug/Kg		1/9/2019 00:12
2-Methylnaphthalene	< 1600	ug/Kg		1/9/2019 00:12
2-Methylphenol	< 1600	ug/Kg		1/9/2019 00:12
2-Nitroaniline	< 1600	ug/Kg		1/9/2019 00:12
2-Nitrophenol	< 1600	ug/Kg		1/9/2019 00:12
3&4-Methylphenol	< 1600	ug/Kg		1/9/2019 00:12
3,3'-Dichlorobenzidine	< 1600	ug/Kg		1/9/2019 00:12
3-Nitroaniline	< 1600	ug/Kg		1/9/2019 00:12

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP15 - 0-1 FT

**Lab Sample ID:** 190066-07

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

4,6-Dinitro-2-methylphenol	< 2130	ug/Kg	1/9/2019 00:12
4-Bromophenyl phenyl ether	< 1600	ug/Kg	1/9/2019 00:12
4-Chloro-3-methylphenol	< 1600	ug/Kg	1/9/2019 00:12
4-Chloroaniline	< 1600	ug/Kg	1/9/2019 00:12
4-Chlorophenyl phenyl ether	< 1600	ug/Kg	1/9/2019 00:12
4-Nitroaniline	< 1600	ug/Kg	1/9/2019 00:12
4-Nitrophenol	< 1600	ug/Kg	1/9/2019 00:12
Acenaphthene	< 1600	ug/Kg	1/9/2019 00:12
Acenaphthylene	< 1600	ug/Kg	1/9/2019 00:12
Acetophenone	< 1600	ug/Kg	1/9/2019 00:12
Anthracene	< 1600	ug/Kg	1/9/2019 00:12
Atrazine	< 1600	ug/Kg	1/9/2019 00:12
Benzaldehyde	< 1600	ug/Kg	1/9/2019 00:12
Benzo (a) anthracene	< 1600	ug/Kg	1/9/2019 00:12
Benzo (a) pyrene	< 1600	ug/Kg	1/9/2019 00:12
Benzo (b) fluoranthene	< 1600	ug/Kg	1/9/2019 00:12
Benzo (g,h,i) perylene	< 1600	ug/Kg	1/9/2019 00:12
Benzo (k) fluoranthene	< 1600	ug/Kg	1/9/2019 00:12
Bis (2-chloroethoxy) methane	< 1600	ug/Kg	1/9/2019 00:12
Bis (2-chloroethyl) ether	< 1600	ug/Kg	1/9/2019 00:12
Bis (2-ethylhexyl) phthalate	< 1600	ug/Kg	1/9/2019 00:12
Butylbenzylphthalate	< 1600	ug/Kg	1/9/2019 00:12
Caprolactam	< 1600	ug/Kg	1/9/2019 00:12
Carbazole	< 1600	ug/Kg	1/9/2019 00:12
Chrysene	< 1600	ug/Kg	1/9/2019 00:12
Dibenz (a,h) anthracene	< 1600	ug/Kg	1/9/2019 00:12
Dibenzofuran	< 1600	ug/Kg	1/9/2019 00:12
Diethyl phthalate	< 1600	ug/Kg	1/9/2019 00:12
Dimethyl phthalate	< 1600	ug/Kg	1/9/2019 00:12
Di-n-butyl phthalate	< 1600	ug/Kg	1/9/2019 00:12
Di-n-octylphthalate	< 1600	ug/Kg	1/9/2019 00:12
Fluoranthene	< 1600	ug/Kg	1/9/2019 00:12

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP15 - 0-1 FT

**Lab Sample ID:** 190066-07

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

Fluorene	< 1600	ug/Kg	1/9/2019 00:12
Hexachlorobenzene	< 1600	ug/Kg	1/9/2019 00:12
Hexachlorobutadiene	< 1600	ug/Kg	1/9/2019 00:12
Hexachlorocyclopentadiene	< 6380	ug/Kg	1/9/2019 00:12
Hexachloroethane	< 1600	ug/Kg	1/9/2019 00:12
Indeno (1,2,3-cd) pyrene	< 1600	ug/Kg	1/9/2019 00:12
Isophorone	< 1600	ug/Kg	1/9/2019 00:12
Naphthalene	< 1600	ug/Kg	1/9/2019 00:12
Nitrobenzene	< 1600	ug/Kg	1/9/2019 00:12
N-Nitroso-di-n-propylamine	< 1600	ug/Kg	1/9/2019 00:12
N-Nitrosodiphenylamine	< 1600	ug/Kg	1/9/2019 00:12
Pentachlorophenol	< 3190	ug/Kg	1/9/2019 00:12
Phenanthrene	< 1600	ug/Kg	1/9/2019 00:12
Phenol	< 1600	ug/Kg	1/9/2019 00:12
Pyrene	< 1600	ug/Kg	1/9/2019 00:12

<b>Surrogate</b>	<b>Percent Recovery</b>	<b>Limits</b>	<b>Outliers</b>	<b>Date Analyzed</b>
2,4,6-Tribromophenol	52.9	31.6 - 97.7		1/9/2019 00:12
2-Fluorobiphenyl	49.5	32.3 - 86.7		1/9/2019 00:12
2-Fluorophenol	46.4	34.7 - 82.2		1/9/2019 00:12
Nitrobenzene-d5	44.9	28.6 - 81.3		1/9/2019 00:12
Phenol-d5	46.0	34.8 - 85.2		1/9/2019 00:12
Terphenyl-d14	51.2	37.3 - 102		1/9/2019 00:12

*Reporting limit elevated due to sample matrix*

**Method Reference(s):** EPA 8270D

EPA 3546

**Preparation Date:** 1/7/2019

**Data File:** B34941.D

**Total Cyanide**

<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>Qualifier</b>	<b>Date Analyzed</b>
Cyanide, Total	< 0.533	mg/Kg		1/10/2019

**Method Reference(s):** EPA 9014

**Preparation Date:** 1/10/2019

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Client: **BE3**

Project Reference: 624 River Road Visone

Sample Identifier: TP17 - 1-2 FT

Lab Sample ID: 190066-08

Date Sampled: 1/3/2019

Matrix: Soil

Date Received: 1/4/2019

**Part 375 Metals (ICP)**

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	15.1	mg/Kg	M	1/8/2019 17:39
Barium	84.6	mg/Kg	M	1/8/2019 17:39
Beryllium	0.996	mg/Kg	M	1/8/2019 17:39
Cadmium	1.09	mg/Kg	DM	1/8/2019 17:39
Chromium	11.7	mg/Kg	M	1/8/2019 17:39
Copper	47.9	mg/Kg	DM	1/8/2019 17:39
Lead	83.7	mg/Kg	DM	1/8/2019 17:39
Manganese	1470	mg/Kg		1/9/2019 17:18
Nickel	7.84	mg/Kg	M	1/8/2019 17:39
Selenium	4.27	mg/Kg	DM	1/10/2019 13:21
Silver	< 0.574	mg/Kg	M	1/8/2019 17:39
Zinc	259	mg/Kg		1/8/2019 17:39

Method Reference(s): EPA 6010C  
EPA 3050B  
Preparation Date: 1/7/2019  
Data File: 190108B

**Mercury**

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.256	mg/Kg		1/8/2019 10:06

Method Reference(s): EPA 7471B  
Preparation Date: 1/7/2019  
Data File: Hg190108A

**PCBs**

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0339	mg/Kg		1/7/2019 18:35
PCB-1221	< 0.0339	mg/Kg		1/7/2019 18:35
PCB-1232	< 0.0339	mg/Kg		1/7/2019 18:35
PCB-1242	< 0.0339	mg/Kg		1/7/2019 18:35
PCB-1248	< 0.0339	mg/Kg		1/7/2019 18:35

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP17 - 1-2 FT

**Lab Sample ID:** 190066-08

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

PCB-1254	< 0.0339	mg/Kg	1/7/2019 18:35
PCB-1260	< 0.0339	mg/Kg	1/7/2019 18:35
PCB-1262	< 0.0339	mg/Kg	1/7/2019 18:35
PCB-1268	< 0.0339	mg/Kg	1/7/2019 18:35

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	11.5	18 - 103	*	1/7/2019 18:35

**Method Reference(s):** EPA 8082A  
EPA 3546  
**Preparation Date:** 1/7/2019

**Chlorinated Pesticides**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
4,4-DDD	< 3.39	ug/Kg		1/7/2019 19:26
4,4-DDE	< 3.39	ug/Kg		1/7/2019 19:26
4,4-DDT	< 3.39	ug/Kg		1/7/2019 19:26
Aldrin	< 3.39	ug/Kg		1/7/2019 19:26
alpha-BHC	< 3.39	ug/Kg		1/7/2019 19:26
beta-BHC	< 3.39	ug/Kg		1/7/2019 19:26
cis-Chlordane	< 3.39	ug/Kg		1/7/2019 19:26
delta-BHC	< 3.39	ug/Kg		1/7/2019 19:26
Dieldrin	< 3.39	ug/Kg		1/7/2019 19:26
Endosulfan I	< 3.39	ug/Kg		1/7/2019 19:26
Endosulfan II	< 3.39	ug/Kg		1/7/2019 19:26
Endosulfan Sulfate	< 3.39	ug/Kg		1/7/2019 19:26
Endrin	< 3.39	ug/Kg		1/7/2019 19:26
Endrin Aldehyde	< 3.39	ug/Kg		1/7/2019 19:26
Endrin Ketone	< 3.39	ug/Kg		1/7/2019 19:26
gamma-BHC (Lindane)	< 3.39	ug/Kg		1/7/2019 19:26
Heptachlor	< 3.39	ug/Kg		1/7/2019 19:26
Heptachlor Epoxide	< 3.39	ug/Kg		1/7/2019 19:26
Methoxychlor	< 3.39	ug/Kg		1/7/2019 19:26
Toxaphene	< 33.9	ug/Kg		1/7/2019 19:26
trans-Chlordane	< 3.39	ug/Kg		1/7/2019 19:26

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Client: **BE3**

Project Reference: 624 River Road Visone

Sample Identifier: TP17 - 1-2 FT

Lab Sample ID: 190066-08

Date Sampled: 1/3/2019

Matrix: Soil

Date Received: 1/4/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	0.00	27.5 - 136	*	1/7/2019 19:26
Tetrachloro-m-xylene (1)	15.8	29.3 - 107	*	1/7/2019 19:26

Method Reference(s): EPA 8081B

EPA 3546

Preparation Date: 1/7/2019

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

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 347	ug/Kg		1/10/2019 20:46
1,2,4,5-Tetrachlorobenzene	< 347	ug/Kg		1/10/2019 20:46
1,2,4-Trichlorobenzene	< 347	ug/Kg		1/10/2019 20:46
1,2-Dichlorobenzene	< 347	ug/Kg		1/10/2019 20:46
1,3-Dichlorobenzene	< 347	ug/Kg		1/10/2019 20:46
1,4-Dichlorobenzene	< 347	ug/Kg		1/10/2019 20:46
2,2-Oxybis (1-chloropropane)	< 347	ug/Kg		1/10/2019 20:46
2,3,4,6-Tetrachlorophenol	< 347	ug/Kg		1/10/2019 20:46
2,4,5-Trichlorophenol	< 347	ug/Kg		1/10/2019 20:46
2,4,6-Trichlorophenol	< 347	ug/Kg		1/10/2019 20:46
2,4-Dichlorophenol	< 347	ug/Kg		1/10/2019 20:46
2,4-Dimethylphenol	< 347	ug/Kg		1/10/2019 20:46
2,4-Dinitrophenol	< 1390	ug/Kg		1/10/2019 20:46
2,4-Dinitrotoluene	< 347	ug/Kg		1/10/2019 20:46
2,6-Dinitrotoluene	< 347	ug/Kg		1/10/2019 20:46
2-Chloronaphthalene	< 347	ug/Kg		1/10/2019 20:46
2-Chlorophenol	< 347	ug/Kg		1/10/2019 20:46
2-Methylnapthalene	< 347	ug/Kg		1/10/2019 20:46
2-Methylphenol	< 347	ug/Kg		1/10/2019 20:46
2-Nitroaniline	< 347	ug/Kg		1/10/2019 20:46
2-Nitrophenol	< 347	ug/Kg		1/10/2019 20:46
3&4-Methylphenol	< 347	ug/Kg		1/10/2019 20:46
3,3'-Dichlorobenzidine	< 347	ug/Kg		1/10/2019 20:46
3-Nitroaniline	< 347	ug/Kg		1/10/2019 20:46

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Lab Project ID: 190066

Client: **BE3**

Project Reference: 624 River Road Visone

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<b>Sample Identifier:</b>	TP17 - 1-2 FT			
<b>Lab Sample ID:</b>	190066-08		<b>Date Sampled:</b>	1/3/2019
<b>Matrix:</b>	Soil		<b>Date Received:</b>	1/4/2019

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4,6-Dinitro-2-methylphenol	< 464	ug/Kg	1/10/2019	20:46
4-Bromophenyl phenyl ether	< 347	ug/Kg	1/10/2019	20:46
4-Chloro-3-methylphenol	< 347	ug/Kg	1/10/2019	20:46
4-Chloroaniline	< 347	ug/Kg	1/10/2019	20:46
4-Chlorophenyl phenyl ether	< 347	ug/Kg	1/10/2019	20:46
4-Nitroaniline	< 347	ug/Kg	1/10/2019	20:46
4-Nitrophenol	< 347	ug/Kg	1/10/2019	20:46
Acenaphthene	< 347	ug/Kg	1/10/2019	20:46
Acenaphthylene	< 347	ug/Kg	1/10/2019	20:46
Acetophenone	< 347	ug/Kg	1/10/2019	20:46
Anthracene	< 347	ug/Kg	1/10/2019	20:46
Atrazine	< 347	ug/Kg	1/10/2019	20:46
Benzaldehyde	< 347	ug/Kg	1/10/2019	20:46
Benzo (a) anthracene	< 347	ug/Kg	1/10/2019	20:46
Benzo (a) pyrene	< 347	ug/Kg	1/10/2019	20:46
Benzo (b) fluoranthene	< 347	ug/Kg	1/10/2019	20:46
Benzo (g,h,i) perylene	< 347	ug/Kg	1/10/2019	20:46
Benzo (k) fluoranthene	< 347	ug/Kg	1/10/2019	20:46
Bis (2-chloroethoxy) methane	< 347	ug/Kg	1/10/2019	20:46
Bis (2-chloroethyl) ether	< 347	ug/Kg	1/10/2019	20:46
Bis (2-ethylhexyl) phthalate	< 347	ug/Kg	1/10/2019	20:46
Butylbenzylphthalate	< 347	ug/Kg	1/10/2019	20:46
Caprolactam	< 347	ug/Kg	1/10/2019	20:46
Carbazole	< 347	ug/Kg	1/10/2019	20:46
Chrysene	< 347	ug/Kg	1/10/2019	20:46
Dibenz (a,h) anthracene	< 347	ug/Kg	1/10/2019	20:46
Dibenzofuran	< 347	ug/Kg	1/10/2019	20:46
Diethyl phthalate	< 347	ug/Kg	1/10/2019	20:46
Dimethyl phthalate	< 347	ug/Kg	1/10/2019	20:46
Di-n-butyl phthalate	< 347	ug/Kg	1/10/2019	20:46
Di-n-octylphthalate	< 347	ug/Kg	1/10/2019	20:46
Fluoranthene	<b>554</b>	ug/Kg	1/10/2019	20:46

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**Client:** BE3

**Project Reference:** 624 River Road Visone

**Sample Identifier:** TP17 - 1-2 FT

**Lab Sample ID:** 190066-08

**Date Sampled:** 1/3/2019

**Matrix:** Soil

**Date Received:** 1/4/2019

Fluorene	< 347	ug/Kg	1/10/2019 20:46
Hexachlorobenzene	< 347	ug/Kg	1/10/2019 20:46
Hexachlorobutadiene	< 347	ug/Kg	1/10/2019 20:46
Hexachlorocyclopentadiene	< 1390	ug/Kg	1/10/2019 20:46
Hexachloroethane	< 347	ug/Kg	1/10/2019 20:46
Indeno (1,2,3-cd) pyrene	< 347	ug/Kg	1/10/2019 20:46
Isophorone	< 347	ug/Kg	1/10/2019 20:46
Naphthalene	< 347	ug/Kg	1/10/2019 20:46
Nitrobenzene	< 347	ug/Kg	1/10/2019 20:46
N-Nitroso-di-n-propylamine	< 347	ug/Kg	1/10/2019 20:46
N-Nitrosodiphenylamine	< 347	ug/Kg	1/10/2019 20:46
Pentachlorophenol	< 694	ug/Kg	1/10/2019 20:46
Phenanthrene	<b>499</b>	ug/Kg	1/10/2019 20:46
Phenol	< 347	ug/Kg	1/10/2019 20:46
Pyrene	<b>457</b>	ug/Kg	1/10/2019 20:46

<b>Surrogate</b>	<b>Percent Recovery</b>	<b>Limits</b>	<b>Outliers</b>	<b>Date Analyzed</b>
2,4,6-Tribromophenol	<b>22.3</b>	31.6 - 97.7	*	1/10/2019 20:46
2-Fluorobiphenyl	<b>32.3</b>	32.3 - 86.7		1/10/2019 20:46
2-Fluorophenol	<b>27.7</b>	34.7 - 82.2	*	1/10/2019 20:46
Nitrobenzene-d5	<b>28.8</b>	28.6 - 81.3		1/10/2019 20:46
Phenol-d5	<b>29.8</b>	34.8 - 85.2	*	1/10/2019 20:46
Terphenyl-d14	<b>31.0</b>	37.3 - 102	*	1/10/2019 20:46

**Method Reference(s):** EPA 8270D  
EPA 3546  
**Preparation Date:** 1/7/2019  
**Data File:** B35032.D

**Total Cyanide**

<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>Qualifier</b>	<b>Date Analyzed</b>
Cyanide, Total	<b>1.54</b>	mg/Kg		1/10/2019

**Method Reference(s):** EPA 9014  
**Preparation Date:** 1/10/2019





## Analytical Report Appendix

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

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

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

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

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

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

*"<" = Analyzed for but not detected at or above the quantitation limit.*

*"E" = Result has been estimated, calibration limit exceeded.*

*"Z" = See case narrative.*

*"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.*

*"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.*

*"B" = Method blank contained trace levels of analyte. Refer to included method blank report.*

*"J" = Result estimated between the quantitation limit and half the quantitation limit.*

*"L" = Laboratory Control Sample recovery outside accepted QC limits.*

*"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.*

*"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.*

*"\*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

*"(1)" = Indicates data from primary column used for QC calculation.*

*"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.*

*"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.*

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.

# CHAIN OF CUSTODY

1 of 2  
1 of 3



PARADIGM  
LABORATORY SERVICES, INC.

REPORT TO:

INVOICE TO:

LAB PROJECT ID

CLIENT: <b>BE3 CORP</b>	CLIENT:	ADDRESS: <b>1820 NETHERLAND ST</b>	ADDRESS:	QUOTATION #: <b>190066</b>
ADDRESS: <b>1820 NETHERLAND ST</b>	CITY: <b>BUFFALO</b>	STATE: <b>NY</b>	ZIP: <b>14213</b>	EMAIL:
CITY: <b>BUFFALO</b>	PHONE: <b>716-308-8220</b>	ATTN: <b>PETER J. GOETON</b>		
STATE: <b>NY</b>				
ZIP: <b>14213</b>				
PHONE: <b>716-308-8220</b>				
ATTN: <b>PETER J. GOETON</b>				

PROJECT REFERENCE  
**624 Cedar Roofs  
VISONC**

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

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	C O M P O S I T E	G R A B	SAMPLE IDENTIFIER	M A C A O T R I S	C O N T A M I N E N T S	REMARKS	PARADIGM LAB SAMPLE NUMBER
JAN 3, 2019	850	X		TP1 - 2-4FT	SD	1	HOLD	01
	905	X		TP2 - 1-3FT		X		
	915	X		TP3 - 1-3FT		X		
	920	X		TP4 - 1-3FT		X		
	930	X		TP5 - 3-4FT		X		
	940	X		TP6 - 1-2FT		X		
	955	X		TP7 - 2-3FT		X		
	1005	X		TP8 - 1-3FT		X		
	1015	X		TP9 - 1-2FT		X		
	1020	X		TP10 - 1-3FT		X		

Turnaround Time	Report Supplements
Availability contingent upon lab approval; additional fees may apply.	
Standard 5 day <input checked="" type="checkbox"/>	None Required <input type="checkbox"/>
10 day <input type="checkbox"/>	Batch QC <input type="checkbox"/>
Rush 3 day <input type="checkbox"/>	Category A <input type="checkbox"/>
Rush 2 day <input type="checkbox"/>	Category B <input type="checkbox"/>
Rush 1 day <input type="checkbox"/>	
Date Needed _____	Other _____
Other _____	Other EDD _____

Received By: **Peter J. Goeton** Date/Time: **1-3-19 4:16**

Relinquished By: **[Signature]** Date/Time: **1-3-19 4:16**

Received By: **[Signature]** Date/Time: **1-4-19 12:51**

Received @ Lab By: **[Signature]** Date/Time: **1-4-19 12:51**

Total Cost:

P.I.F.

# CHAIN OF CUSTODY

20F2 2F3



**PARADIGM**  
LABORATORY SERVICES

REPORT TO:

INVOICE TO:

LAB PROJECT ID

CLIENT: <b>BE3 CORP</b>	CLIENT:	LAB PROJECT ID: <b>190066</b>
ADDRESS:	ADDRESS:	Quotation #: <b>11010319</b>
CITY:	CITY:	State: <b>NY</b>
STATE:	STATE:	ZIP:
ZIP:	ZIP:	Email:
PHONE:	PHONE:	
ATTN:	ATTN:	

PROJECT REFERENCE  
**624 RIVER ROADS**  
**Visone**

Matrix Codes:  
 AQ - Aqueous Liquid  
 NA - 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	MATERIALS	NUMBERS	REMARKS	PARADIGM LAB SAMPLE NUMBER
Jan 3 2019	1030	X		TP11 - 1-2 FT	50	1	HOLD	05
				TP12 - 1-3 FT			HOLD	
				TP13 - 1-2 FT			HOLD	
				TP14 - 1-2 FT			HOLD	06
				TP15 - 0-1 FT			HOLD	07
				TP16 - 1-2 FT			HOLD	
				TP17 - 1-2 FT			HOLD	08

Turnaround Time	Report Supplements
Availability contingent upon lab approval; additional fees may apply.	
Standard 5 day <input checked="" type="checkbox"/>	None Required <input type="checkbox"/>
10 day <input type="checkbox"/>	Batch QC <input type="checkbox"/>
Rush 3 day <input type="checkbox"/>	Category A <input type="checkbox"/>
Rush 2 day <input type="checkbox"/>	Category B <input type="checkbox"/>
Rush 1 day <input type="checkbox"/>	Other <input type="checkbox"/>
Date Needed _____	Other EDD <input type="checkbox"/>
please indicate date needed:	

Sampled By: **PETER J GARDEN** Date/Time: **1-3-19** 11:54 AM Total Cost: \_\_\_\_\_

Relinquished By: **[Signature]** Date/Time: **1-3-19** 4:16 PM

Received By: **[Signature]** Date/Time: **1-3-19** 4:16 PM P.I.F.

Received @ Lab By: **[Signature]** Date/Time: **1-4-19** 12:51 PM

Received 1/4/19 12:10

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

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### Chain of Custody Supplement

Client: BE3

Completed by: Glen Pezzulo

Lab Project ID: 190066

Date: 1/4/19

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

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<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>6°C cooled</u>		
Sufficient Sample Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		