

Waste Management Unit 29 Soil Investigation

18251 West Jefferson
Riverview, Michigan

Riverview-Trenton Railroad Company

January 19, 2021

ASTI ENVIRONMENTAL



Waste Management Unit 29 Soil Investigation

18251 West Jefferson
Riverview, Michigan

January 19, 2021

Prepared For:

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Waste Management Unit 29 Soil Investigation
Riverview-Trenton Railroad Company
Former McLouth Steel Site
18251 West Jefferson Avenue
Riverview, Michigan

1.0 Introduction

In accordance with the Corrective Action Consent Order (“CACO”) dated November 1, 2018 between the Riverview-Trenton Rail Road Company (“RTRR”) and the Michigan Department of Environment, Great Lakes, and Energy (“EGLE”), ASTI Environmental (“ASTI”) conducted a soil investigation at the property located at 18251 West Jefferson Avenue in the City of Riverview, Wayne County, Michigan (“Subject Property”). The portion of the Subject Property which lies south of Sibley Road, is located in the City of Trenton. The investigation was completed in accordance with the Statement of Work included as Attachment A of the CACO for the Subject Property and with the Work Plan – Waste Management Unit Investigations prepared by ASTI dated June 28, 2019 (“Work Plan”). Attachment A includes Figure 1, Site Location Map and Figure 2, a Site Features Map.

The investigation was completed for the former Toxic Substance Control Act (“TSCA”) waste storage building, also known as Waste Management Unit 29 (“WMU-29”). The location of WMU-29 is shown in Figure 2. The purpose of the investigation was to determine the horizontal and vertical extent of polychlorinated biphenyls (“PCBs”). As defined in the CACO, soil analytical results were compared to the TSCA PCB Cleanup Level for Low Occupancy Areas of less than or equal to 25 parts per million (“ppm” or milligrams per kilogram).

2.0 Background

The McLouth Steel Company (“McLouth”) acquired the Subject Property between 1956 and 1961, and used portions of it for storage of raw materials, waste, and product to support the integrated production of steel and iron in the production facility located to the south (“McLouth Facility”). A large slag processing operation, operated by E. C. Levy Company, was located on the Subject Property. After about 1975, steel production decreased until McLouth ceased operations in April of 1996 after filing for Chapter 11 bankruptcy protection on September 29, 1995. At that time, only one blast furnace was operational and most other production units were operating at significantly reduced capacities.

Hamlin Holdings, Inc. acquired the Subject Property in July of 1996, although it is unclear what was conducted on the Subject Property during that time. Detroit Steel Company (“DSC”) obtained title for the Subject Property in August of 1996, during which time it used the Subject Property for storage and conducted removal activities. DSC resumed pickling of strip steel at the McLouth Facility in July 1998. In support of the pickling operations, DSC started the scrubber, Central Wastewater Treatment Plant, and the pH adjustment station. Those operations closed in 2005. Crown Enterprises purchased the Subject Property on June 2, 2000 and conveyed the property to RTRR in November of 2000.

Historically, the Subject Property included the Monguagon Creek channel, an oil storage terminal, and a large building with docking facilities. By 1961, the large building and oil terminal had been demolished and the Monguagon Creek channel had been rerouted to its current location along River Road. By 1967, the original channel and mouth area of Monguagon Creek had been filled completely and this area was used for storage of equipment and materials (ore, debris, and scrap)¹.

WMU-29 was a concrete block building constructed around 1980 which measured approximately 46 feet by 20 feet. The building was used to store containers of PCB transformers and materials in compliance with TSCA regulations. The sealed concrete floor was constructed with secondary containment curbs that served as footings for the block walls. The building was demolished by early 2001 and only the concrete pad and secondary containment curbs remain.

3.0 Previous Investigations

In October 2000, Environmental Strategies Corporation (“ESC”) collected samples of the concrete pad, the cinder block walls, and soil from beneath the pad. Results of laboratory analysis indicated that soil beneath the pad contained PCB concentrations which exceeded 25 ppm in two of the five soil borings. In both locations, PCBs exceeded 25 ppm in the samples collected from 0 to 6 inches below the concrete pad and in the samples collected 6 inches to 12 inches below the concrete pad. PCBs were detected at a maximum concentration of 806 ppm in soil, a maximum concentration of 0.5 ppm in the concrete core samples, and a maximum concentration of 2.5 ppm in the concrete block samples.

Additional investigation was performed in January 2001 which included collection of composite soil samples from around the concrete pad and concrete samples from the pad. Laboratory analytical concentrations indicated that PCBs were detected in composite samples around the concrete pad at concentrations less than 25 ppm. Individual soil grab samples for each composite were also collected and analyzed and a maximum concentration of 4 ppm was reported. PCBs were detected in each of the five concrete samples collected and the maximum concentration was 1,400 ppm. Three of the five concrete samples collected contained a PCB concentration greater than 1 ppm; the allowable limit for a PCB cap as defined in the Code of Federal Regulations (“CFR”) 761.61(a)(7).

In July 2001, the concrete slab of the former TSCA waste storage building was cleaned with a surfactant solution. After cleaning, one verification sample was collected from the full thickness of the slab. The concrete sample contained a concentration of PCBs greater than 50 ppm².

¹ North Area Characterization Plan, Revised, ESC, November 2, 2000

² Quarterly Status Report, DSC LTD., Third Quarter 2001, November 14, 2001

4.0 December 2019 PCB Investigation

4.1 Soil Sample Collection

ASTI conducted a soil investigation in accordance with the CACO and the Work Plan. The Work Plan described installation of 14 soil borings surrounding the concrete pad and 2 soil borings beneath the pad. ASTI considered a five-foot wide perimeter surrounding the concrete pad for the WMU-29 investigation. The concrete pad measures approximately 46 feet (east/west) by approximately 20 feet (north/south). ASTI determined sample locations for the area surrounding the concrete pad using a Systematic Random Approach as described in the EGLE Guidance Document titled Sampling Strategies and Statistics Training Materials for Part 201 Cleanup Criteria ("S3TM" [EGLE, 2002]). ASTI used one sample locating approach for the grids north and south of the concrete pad and a separate locating approach for the grids to the east and west of the pad due to different orientations of the grid blocks.

The grid sizes were determined by allowing for a five-foot wide investigation area around the pad and locating two samples on each side of the pad and five samples along the length of each side of the pad. The dimensions of the grids located to the north and south of the concrete pad were 11.2 feet (east/west) by 5 feet (north/south). The dimensions of the grids located on the east and west sides of the pad were five feet (east/west) by ten feet (north/south). One sample was collected from each grid.

ASTI used Microsoft Excel to randomly generate soil sample locations within each grid. For the grids located on the north and south of the pad, one random number between 0 and 11.2 was generated for the x-axis (east/west) and one random number between 0 and 5 was generated for the y-axis (north/south). The random number generated for the x-axis was 8 and the random number generated for the y-axis was 4. ASTI used these randomly generated numbers to measure from the southwest corner of each grid; 8 feet east from the southwestern corner and 4 feet north of the southern border of each grid. Figure 3 shows the WMU-29 area of investigation including the grids and sample locations.

For the grids located on the east and west of the pad, one random number between 0 and 5 was generated for the x-axis (east/west) and one random number between 0 and 10 was generated for the y-axis (north/south). The random number generated for the x-axis was 3 and the random number generated for the y-axis was 4. ASTI used these randomly generated numbers to measure from the southwest corner of each grid; 3 feet east from the southwestern corner and 4 feet north of the southern border of each grid (Figure 3). The soil borings installed around the perimeter of the pad were designated WMU29-SB1 through WMU29-SB14.

Additionally, ASTI installed two soil borings beneath the concrete pad (WMU29-SB15 and WMU29-SB16). The two locations were chosen based on previous samples with PCB concentrations which exceeded 25 ppm. The sample locations beneath the concrete pad are shown on Figure 3.

Prior to drilling, ASTI contacted the Michigan MISS DIG system to locate public utilities near the Subject Property. On December 17, 2019, an ASTI scientist supervised installation of 16 soil borings within the WMU-29 area of investigation. The soil borings were installed with the use of a track-mounted hydraulic direct push drill rig. Each soil boring location was marked

in the field prior to drilling using measurements calculated using the systematic random approach.

Soil was continuously logged and recorded in the project field notebook. Each boring was advanced to drilling refusal and depths ranged from 7 feet bgs to 12 feet bgs. ASTI collected one surface soil sample from the interval between zero and three inches bgs. For the soil borings installed beneath the concrete pad (WMU29-SB15 and WMU29-SB-16), shallow samples were collected from the soil interval located zero to three inches beneath the concrete. A second soil sample was collected from the interval directly above the depth of drilling refusal. The Work Plan also stated that a third sample would have been collected from each boring at an interval which displayed potential impacts based on visual observations (i.e. staining, odor, etc.). ASTI did not observe any intervals which displayed potential impacts requiring the need for a third sample; therefore, two soil samples were collected and analyzed from each boring. The soil boring logs are provided in Attachment B.

Soil was retrieved from the borings in a clean disposable acetate liner and scanned with a photoionization detector ("PID"). Prior to sample collection, the PID was calibrated to manufacturer specifications using 100 ppm isobutylene span gas. After logging the soil lithological descriptions, the ASTI field scientist collected soil samples from the intervals described above. Soil samples were collected by placing soil directly into clean jars provided by the laboratory. Each sample was labeled with a unique identification number including the Waste Management Unit identification, soil boring identification number, and the depth interval. For example, the soil sample collected from the zero to three-inch bgs interval from boring WMU29-SB1 was identified as WMU29-SB1-0-3". After collection, the samples were placed on ice and kept cold until delivery to Fibertech Laboratory (Fibertech) in Holt, Michigan under standard chain-of-custody procedures. For the purpose of quality control/quality assurance (QA/QC), ASTI collected a duplicate sample. Soil samples were analyzed for PCBs by United States Environmental Protection Agency (USEPA) Methods 3546 and 8082A.

4.2. Laboratory Analytical Results

The laboratory analytical results for the WMU-29 soil samples collected in December 2019 indicate that PCBs were not present at a concentration greater than 25 ppm with the exception of one sample. The sample collected from WMU29-SB15 from zero to three inches below the concrete pad contained a concentration of total PCBs of 2,200 ppm. PCBs were detected at a concentration of 0.15 ppm from the interval from six to seven feet bgs at the same location. No other samples contained a PCB concentration in exceedance of 25 ppm. Table 1 provides a summary of the laboratory analytical results for the December 2019 soil investigation (note that analytical results in the table are presented in parts per billion). The laboratory analytical report is provided in Attachment C.

4.3. Concrete

Concrete samples were not collected during this investigation. Investigations conducted previously included collection of concrete samples for PCB analysis and PCBs were detected at a maximum concentration of 1,400 ppm. A previous attempt to clean the concrete was unsuccessful at reducing PCB concentrations to acceptable levels. Removal and disposal of the concrete pad will take place for proper disposal prior to or during redevelopment of the Subject Property.

5.0 Measures to Prevent Unacceptable Human Exposure to PCBs

Multiple soil investigations have taken place to characterize soil beneath and around the WMU-29 concrete pad. Soil samples collected around the concrete pad did not detect concentrations of PCBs in exceedance of 25 ppm. Soil sampling conducted in shallow soil below the concrete pad contained concentrations of PCBs which exceeded 100 ppm (the maximum concentration for leaving bulk remediation PCB waste in a low-occupancy area). Deeper soil samples collected beneath the concrete pad did not contain PCB concentrations greater than 25 ppm.

Options to prevent unacceptable human exposure to PCBs are dependent on future site use. Redevelopment plans are not complete at this time; however, it is assumed that the former WMU-29 area will meet the definition of low occupancy as defined in 40 CFR 761.3. A low occupancy area is defined as any area where PCB remediation was has been disposed of on-site and where occupancy for any individual not wearing dermal and respiratory protection for a calendar year is: less than 335 hours (an average of 6.7 hours per week) for bulk PCB remediation waste. Several potential options to remediate PCBs in order to prevent unacceptable human exposure to PCBs for low occupancy are summarized below:

- Clean and characterize the concrete pad and removal of soil with PCB concentrations greater than 100 ppm. This option would require collection and containment of wash wastewater for disposal, Concrete characterization would be required; however, concrete removal would be necessary to excavate soils with PCB concentrations greater than 100 ppm. A fence would be required for this option. Concrete cleaning was conducted in the past and PCB concentrations remain at unacceptable levels.
- Risk-based disposal: this option uses a risk-based approach to determine if PCBs pose an unacceptable risk to human health or ecological receptors. This option would likely require collection of additional samples. A risk-based approach may show that remediation is required; therefore, this approach will not be considered further.

The concrete pad will be removed to eliminate exposure to PCBs based on concentrations detected in previous investigations. The following provides a summary of the potential remedial options based on assumed low occupancy use of the area as defined in CFR 761.3:

- If future site use meets the definition for low occupancy site use (future occupancy is assumed to be low-occupancy), the soils containing PCB concentrations equal to or below 50 ppm could remain at the site if the area is secured by a fence and marked with a sign including the M_L mark. A deed restriction would be required, in accordance with 40 CFR 761.61(a)(8), and maintenance of the fence would be required by the site owner in perpetuity.
- An additional option for low occupancy would allow for soils with PCB concentrations less than or equal to 100 ppm to remain at the site if the site is covered with an cap of concrete, asphalt, or similar material of minimum thickness spread over the area where remediation waste was removed or left in place as required by 40 CFR 761.61(a)(7). This option would also require a deed restriction in accordance with 40

CFR 761.61(a)(8) and maintenance of the cap. The existing concrete pad does not meet the criteria for a cap as defined in 40 CFR 761.61(a)(8); therefore, this option required removal of concrete pad for characterization and proper disposal.

6.0 Conclusions

ASTI collected 32 soil samples (plus one duplicate soil sample) for analysis of PCBs. Each sample contained a PCB concentration below 25 ppm, with the exception of one sample collected from shallow soil below the existing concrete pad. The maximum detected PCB concentration was 2,200 ppm. These concentrations are consistent with PCB concentrations detected during previous investigations.

Based on PCB concentrations detected during ASTI's soil investigation under and adjacent to the concrete pad, and concentrations detected in concrete during previous investigations, ASTI recommends removal of the concrete pad and removal of soil as described in the options above.

7.0 RCRA Certification Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Greg S. Oslosky, P.G.
Director – Grand Rapids

Table 1
Summary of WMU-29 Soil Analysis

Waste Management Unit 29 Investigation

Table 1 Summary of WMU-29 Soil Analysis**RTRR Property****18251 West Jefferson Ave, Riverview, MI****ASTI Project Number 10860**

Parameters	TSCA PCB Cleanup Level for Low Occupancy Areas	WMU29-DUP					
		WMU29-SB1-0-3" 0-3"	WMU29-SB1-10-11' 10-11'	WMU29-SB2-0-3" 0-3"	WMU29-SB2-0-3" 0-3"	WMU29-SB2-10-11' 10-11'	WMU29-SB3-0-3" 0-3"
		12/17/2019 µg/kg	12/17/2019 µg/kg	12/17/2019 µg/kg	12/17/2019 µg/kg	12/17/2019 µg/kg	12/17/2019 µg/kg
PCBs							
PCB, Aroclor 1016		<100	<100	<100	<100	<100	<100
PCB, Aroclor 1221		<100	<100	<100	<100	<100	<100
PCB, Aroclor 1232		<100	<100	<100	<100	<100	<100
PCB, Aroclor 1242		<100	390	<100	<100	<100	<100
PCB, Aroclor 1248		<100	<100	<100	<100	<100	<100
PCB, Aroclor 1254		620	<100	160	<100	<100	1,200
PCB, Aroclor 1260		460	<100	200	<100	<100	820
PCB, Aroclor 1262		<100	<100	<100	<100	<100	<100
PCB, Aroclor 1268		<100	<100	<100	<100	<100	<100
Total PCBs	25,000	1,080	390	360	<100	<100	2,020

Parameters	TSCA PCB Cleanup Level for Low Occupancy Areas	WMU29-SB9-0-3" WMU29-SB9-9-10' WMU29-SB10-0-3" WMU29-SB10-10-11 WMU29-SB11-0-3" WMU29-SB11-10-11					
		WMU29-SB9-0-3" 0-3"	WMU29-SB9-9-10' 9-10'	WMU29-SB10-0-3" 0-3"	WMU29-SB10-10-11 10-11'	WMU29-SB11-0-3" 0-3"	WMU29-SB11-10-11 10-11'
		12/17/2019 µg/kg	12/17/2019 µg/kg	12/17/2019 µg/kg	12/17/2019 µg/kg	12/17/2019 µg/kg	12/17/2019 µg/kg
PCBs							
PCB, Aroclor 1016		<100	<100	<100	<100	<100	<100
PCB, Aroclor 1221		<100	<100	<100	<100	<100	<100
PCB, Aroclor 1232		<100	<100	<100	<100	<100	<100
PCB, Aroclor 1242		<100	<100	<100	<100	<100	280
PCB, Aroclor 1248		<100	<100	<100	<100	<100	<100
PCB, Aroclor 1254		420	<100	<100	<100	<100	370
PCB, Aroclor 1260		420	270	<100	190	290	290
PCB, Aroclor 1262		<100	<100	<100	<100	<100	<100
PCB, Aroclor 1268		<100	<100	<100	<100	<100	<100
Total PCBs	25,000	840	270	<100	190	290	940

Notes:

"µg/kg" - micrograms per kilogram or parts per billion

Bold indicates concentration greater than the reporting limit.

Shading indicates concentration exceeding cleanup criteria.

<" indicates concentration below laboratory reporting limit.

Table 1 Summary of WMU-29 Soil Analysis**RTRR Property****18251 West Jefferson Ave, Riverview, MI****ASTI Project Number 10860**

Parameters	TSCA PCB Cleanup Level for Low Occupancy Areas	WMU29-SB3-11-12' 11-12'	WMU29-SB4-0-3" 0-3"	WMU29-SB4-11-12' 11-12'	WMU29-SB5-0-3" 0-3"	WMU29-SB5-10-11' 10-11'	WMU29-SB6-0-3" 0-3"
	µg/kg	12/17/2019	µg/kg	12/17/2019	µg/kg	12/17/2019	µg/kg
PCBs							
PCB, Aroclor 1016		<100	<100	<100	<100	<100	<100
PCB, Aroclor 1221		<100	<100	<100	<100	<100	<100
PCB, Aroclor 1232		<100	<100	<100	<100	<100	<100
PCB, Aroclor 1242	330	<100	<100	<100	<100	<100	<100
PCB, Aroclor 1248	<100	<100	<100	<100	<100	<100	<100
PCB, Aroclor 1254	480	<100	<100	1,700	<100	520	
PCB, Aroclor 1260	350	120	<100	1,700	<100	400	
PCB, Aroclor 1262	<100	<100	<100	<100	<100	<100	<100
PCB, Aroclor 1268	<100	<100	<100	<100	<100	<100	<100
Total PCBs	25,000	1,160	120	<100	3,400	<100	920

Parameters	TSCA PCB Cleanup Level for Low Occupancy Areas	WMU29-SB12-0-3" 0-3"	WMU29-SB12-11-12' 11-12'	WMU29-SB13-0-3" 0-3"	WMU29-SB13-6-7' 11-12'	WMU29-SB14-0-3" 0-3"	WMU29-SB14-10-11' 10-11'
	µg/kg	12/17/2019	µg/kg	12/17/2019	µg/kg	12/17/2019	µg/kg
PCBs							
PCB, Aroclor 1016		<100	<100	<100	<100	<100	<100
PCB, Aroclor 1221		<100	<100	<100	<100	<100	<100
PCB, Aroclor 1232		<100	<100	<100	<100	<100	<100
PCB, Aroclor 1242	<100	<100	<100	210	<100	<100	<100
PCB, Aroclor 1248	<100	<100	<100	<100	<100	<100	<100
PCB, Aroclor 1254	540	1,700	1,400	240	580	870	
PCB, Aroclor 1260	420	<100	1,200	<100	460	1,000	
PCB, Aroclor 1262	<100	<100	<100	<100	<100	<100	<100
PCB, Aroclor 1268	<100	<100	<100	<100	<100	<100	<100
Total PCBs	25,000	960	1,700	2,600	450	1,040	1,870

Notes:

"µg/kg" - micrograms per kilogram or parts per billion

Bold indicates concentration greater than the reporting limit.

Shading indicates concentration exceeding cleanup criteria.

<" indicates concentration below laboratory reporting limit.

Table 1 Summary of WMU-29 Soil Analysis

RTRR Property

18251 West Jefferson Ave, Riverview, MI

ASTI Project Number 10860

Parameters	TSCA PCB Cleanup Level for Low Occupancy Areas	WMU29-SB6-11-12' 11-12'	WMU29-SB7-0-3" 0-3"	WMU29-SB7-10-11' 10-11'	WMU29-SB8-0-3" 0-3"	WMU29-SB8-9-10' 9-10'
	µg/kg	12/17/2019	µg/kg	12/17/2019	µg/kg	12/17/2019
PCBs						
PCB, Aroclor 1016		<100	<100	<100	<100	<100
PCB, Aroclor 1221		<100	<100	<100	<100	<100
PCB, Aroclor 1232		<100	<100	<100	<100	<100
PCB, Aroclor 1242		<100	<100	<100	<100	420
PCB, Aroclor 1248		<100	<100	<100	<100	<100
PCB, Aroclor 1254		<100	7,700	<100	1,300	410
PCB, Aroclor 1260		<100	5,000	<100	1,500	230
PCB, Aroclor 1262		<100	<100	<100	<100	<100
PCB, Aroclor 1268		<100	<100	<100	<100	<100
Total PCBs	25,000	<100	12,700	<100	2,800	1,060

Parameters	TSCA PCB Cleanup Level for Low Occupancy Areas	WMU29-SB15-0-3" 0-3"	WMU29-SB15-6-7' 6-7"	WMU29-SB16-0-3" 0-3"	WMU29-SB16-6-7' 6-7"
	µg/kg	12/17/2019	µg/kg	12/17/2019	µg/kg
PCBs					
PCB, Aroclor 1016					
PCB, Aroclor 1221		<100	<100	<100	<100
PCB, Aroclor 1232		<100	<100	<100	<100
PCB, Aroclor 1242		<100	<100	<100	190
PCB, Aroclor 1248		<100	<100	<100	<100
PCB, Aroclor 1254		1,800,000	150	270	240
PCB, Aroclor 1260		400,000	<100	210	<100
PCB, Aroclor 1262		<100	<100	<100	<100
PCB, Aroclor 1268		<100	<100	<100	<100
Total PCBs	25,000	2,200,000	150	480	430

Notes:

"µg/kg" - micrograms per kilogram or parts per billion

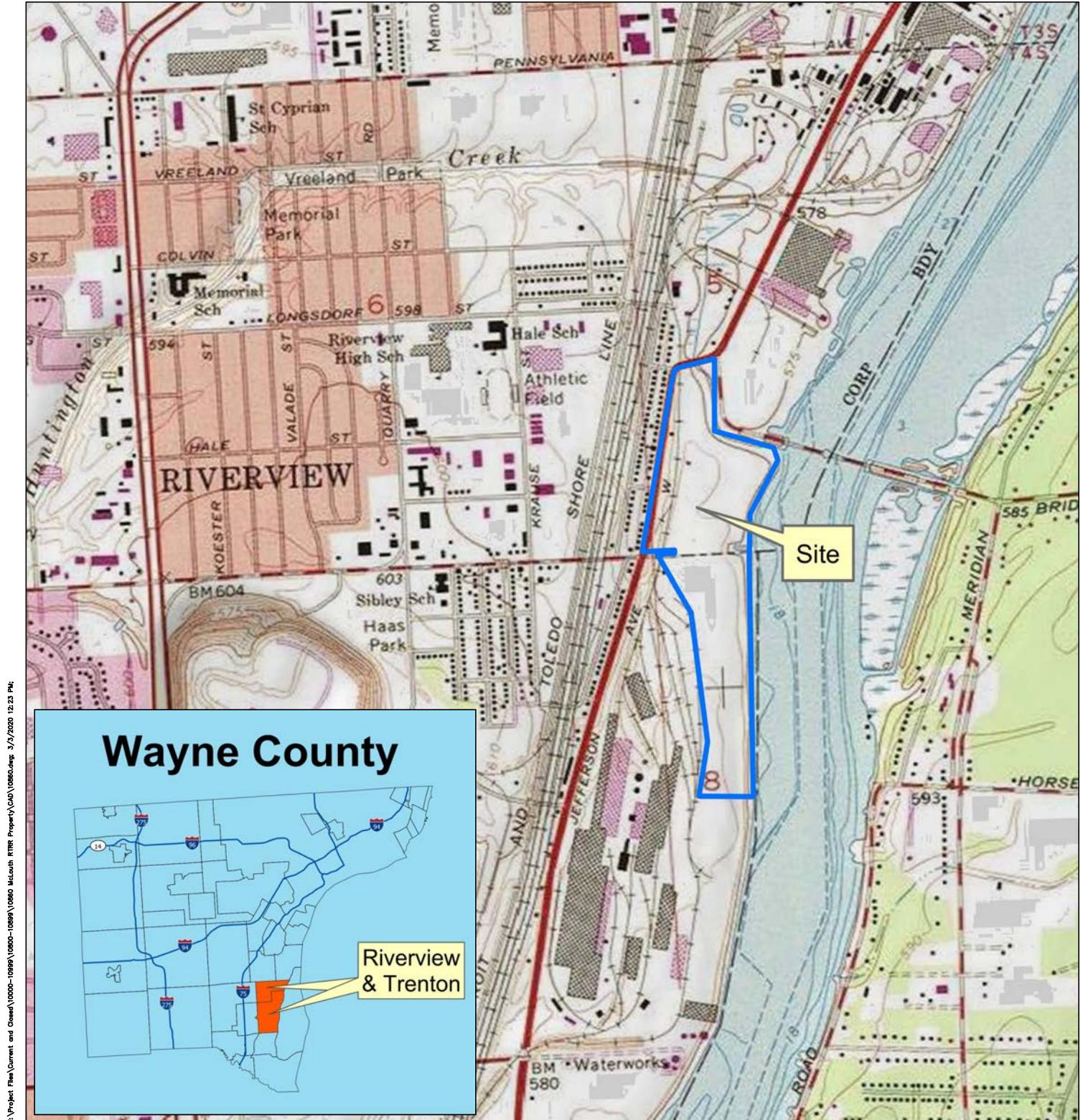
Bold indicates concentration greater than the reporting limit.

Shading indicates concentration exceeding cleanup criteria.

"<" indicates concentration below laboratory reporting limit.

**Attachment A
Figures**

Waste Management Unit 29 Investigation



0 600 1200 1800
 Approximate Scale in Feet

LEGEND
 Property Line



RTRR - WMU-26 Investigation

Created for: Riverview-Trenton Railroad Company
 ASTI Project 10860, JRN, March 3, 2020

18251 West Jefferson
 Riverview, MI

ASTI
 Environmental

Figure 1 - Site Location Map



RTRR Property

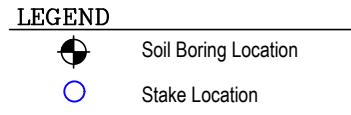
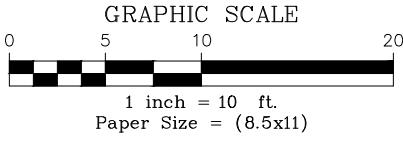
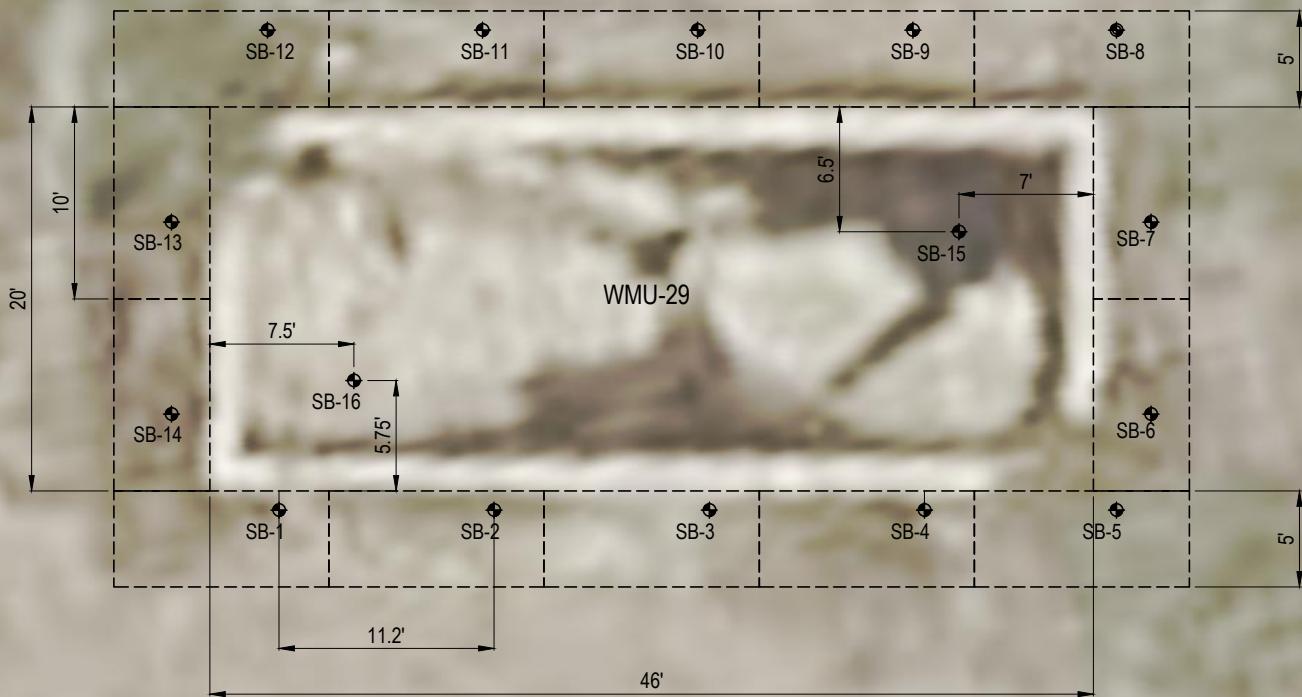
Created for: Riverview-Trenton Railroad Company
ASTI Project 10860,JRN, April 1, 2020

18251 West Jefferson Avenue, Riverview, MI

ASTI
Environmental



Figure 2 - Site Features Map



RTRR Property

18251 West Jefferson, Riverview, MI

Created for: Riverview-Trenton Railroad Company
ASTI Project 10860, JRN, April 8, 2020

Figure 3 - WMU-29 Sample Location Map

**Attachment B
Soil Boring Logs**

Waste Management Unit 29 Investigation

ASTI Environmental
10448 Citation Dr., Suite 100
Brighton, MI 48116

SOIL BORING LOG

Proj. Name:	RTRR
Proj. Number:	10860

Boring Data	
Boring ID:	WMU29-SB1
Total Depth:	11'

Site Address:	18251 West Jefferson
	Riverview, Michigan

Date Completed:	12/17/2019
-----------------	------------

Drilled by:	ERG
Method:	Direct push probe
Geologist:	Mitchel Dykla

MW Data	
Size:	NA
Type:	NA
Screen Length:	NA
Well Depth:	NA
GW Depth (▼):	NA

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	4"	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, vegetation, and slag, brown, moist, loose (fill)	0.0	Soil at 0-3"
4"	11'	SAND, medium to coarse grained, trace very fine to fine grained sand, silt, gravel, and slag, grey, moist, loose (fill)	0.0	Soil at 10-11'
		End of Boring		

ppm = parts per million

MW = monitoring well

TW = temporary monitoring well

bgs = below ground surface

(USDA soil texture)

ASTI Environmental
10448 Citation Dr., Suite 100
Brighton, MI 48116

SOIL BORING LOG

Proj. Name:	RTRR
Proj. Number:	10860

Boring Data	
Boring ID:	WMU29-SB2
Total Depth:	11'

Site Address:	18251 West Jefferson
	Riverview, Michigan

Date Completed:	12/17/2019
-----------------	------------

Drilled by:	ERG
Method:	Direct push probe
Geologist:	Mitchel Dykla

MW Data	
Size:	NA
Type:	NA
Screen Length:	NA
Well Depth:	NA
GW Depth (▼):	NA

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	4"	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, vegetation, and slag, brown, moist, loose (fill)	0.0	Soil at 0-3"
4"	11'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and slag, grey, moist, loose (fill)	0.0	Soil at 10-11'
		End of Boring		

ppm = parts per million

MW = monitoring well

TW = temporary monitoring well

bgs = below ground surface

(USDA soil texture)

ASTI Environmental
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Brighton, MI 48116

SOIL BORING LOG

Proj. Name:	RTRR
Proj. Number:	10860

Boring Data	
Boring ID:	WMU29-SB3
Total Depth:	12'

Date Completed:	12/17/2019
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Site Address:	18251 West Jefferson Riverview, Michigan
Drilled by:	ERG
Method:	Direct push probe
Geologist:	Mitchel Dykla

MW Data	
Size:	NA
Type:	NA
Screen Length:	NA
Well Depth:	NA
GW Depth (▼):	NA

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	4"	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, vegetation, and slag, brown, moist, loose (fill)	0.0	Soil at 0-3"
4"	12'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and slag, dark brown, moist, loose (fill)	0.0	Soil at 11-12'
		End of Boring		

ppm = parts per million

MW = monitoring well

TW = temporary monitoring well

bgs = below ground surface

(USDA soil texture)

ASTI Environmental
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Brighton, MI 48116

SOIL BORING LOG

Proj. Name:	RTRR
Proj. Number:	10860

Boring Data	
Boring ID:	WMU29-SB4
Total Depth:	12'

Site Address:	18251 West Jefferson Riverview, Michigan
Drilled by:	ERG
Method:	Direct push probe
Geologist:	Mitchel Dykla

MW Data	
Size:	NA
Type:	NA
Screen Length:	NA
Well Depth:	NA
GW Depth (▼):	NA

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	4"	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and slag, brown, moist, loose (fill)	0.0	Soil at 0-3"
4"	12'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and slag, dark brown, moist, loose (fill)	0.0	Soil at 11-12'
		End of Boring		

ppm = parts per million

MW = monitoring well

TW = temporary monitoring well

bgs = below ground surface

(USDA soil texture)

ASTI Environmental
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SOIL BORING LOG

Proj. Name:	RTRR
Proj. Number:	10860

Boring Data	
Boring ID:	WMU29-SB5
Total Depth:	11'

Site Address:	18251 West Jefferson Riverview, Michigan
Drilled by:	ERG
Method:	Direct push probe
Geologist:	Mitchel Dykla

MW Data	
Size:	NA
Type:	NA
Screen Length:	NA
Well Depth:	NA
GW Depth (▼):	NA

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	4"	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, vegetation and slag, brown, moist, loose (fill)	0.0	Soil at 0-3"
4"	11'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and slag, dark brown, moist, loose (fill)	0.0	Soil at 10-11'
		End of Boring		

ppm = parts per million

MW = monitoring well

TW = temporary monitoring well

bgs = below ground surface

(USDA soil texture)

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SOIL BORING LOG

Proj. Name:	RTRR
Proj. Number:	10860

Boring Data	
Boring ID:	WMU29-SB6
Total Depth:	12'

Site Address:	18251 West Jefferson
	Riverview, Michigan

Date Completed:	12/17/2019
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Drilled by:	ERG
Method:	Direct push probe
Geologist:	Mitchel Dykla

MW Data	
Size:	NA
Type:	NA
Screen Length:	NA
Well Depth:	NA
GW Depth (▼):	NA

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	4"	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, vegetation and slag, brown, moist, loose (fill)	0.0	Soil at 0-3"
4"	12'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and slag, dark brown, moist, loose (fill)	0.0	Soil at 11-12'
		End of Boring		

ppm = parts per million

MW = monitoring well

TW = temporary monitoring well

bgs = below ground surface

(USDA soil texture)

ASTI Environmental
10448 Citation Dr., Suite 100
Brighton, MI 48116

SOIL BORING LOG

Proj. Name:	RTRR
Proj. Number:	10860

Boring Data	
Boring ID:	WMU29-SB7
Total Depth:	11'

Site Address:	18251 West Jefferson
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Date Completed:	12/17/2019
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Riverview, Michigan

Drilled by:	ERG
Method:	Direct push probe
Geologist:	Mitchel Dykla

MW Data	
Size:	NA
Type:	NA
Screen Length:	NA
Well Depth:	NA
GW Depth (▼):	NA

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	4"	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and vegetation, dark brown, moist, loose (fill)	0.0	Soil at 0-3"
4"	4'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and slag, grey, moist, loose (fill)	0.0	
4'	10'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, asphalt, and slag, dark brown, moist, loose (fill)	0.0	
10'	11'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, asphalt, concrete, and slag, dark brown, moist, loose (fill)	0.0	Soil at 10-11'
		End of Boring		

ppm = parts per million

MW = monitoring well

TW = temporary monitoring well

bgs = below ground surface

(USDA soil texture)

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SOIL BORING LOG

Proj. Name:	RTRR
Proj. Number:	10860

Boring Data	WMU29-SB8
Boring ID:	
Total Depth:	11'

Date Completed:	12/17/2019
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Site Address:	18251 West Jefferson Riverview, Michigan

MW Data	NA
Size:	NA
Type:	NA
Screen Length:	NA
Well Depth:	NA
GW Depth (▼):	NA

Drilled by:	ERG
Method:	Direct push probe
Geologist:	Mitchel Dykla

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	4"	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and vegetation, dark brown, moist, loose (fill)	0.0	Soil at 0-3"
4"	3.5'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and slag, grey, moist, loose (fill)	0.0	
3.5	11'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, asphalt, silt, and slag, dark brown, moist, loose (fill)	0.0	Soil at 9-10'
		End of Boring		

ppm = parts per million

MW = monitoring well

TW = temporary monitoring well

bgs = below ground surface

(USDA soil texture)

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SOIL BORING LOG

Proj. Name:	RTRR
Proj. Number:	10860

Boring Data	
Boring ID:	WMU29-SB9
Total Depth:	12'

Site Address:	18251 West Jefferson
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Date Completed:	12/17/2019
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Riverview, Michigan

Drilled by:	ERG
Method:	Direct push probe
Geologist:	Mitchel Dykla

MW Data	
Size:	NA
Type:	NA
Screen Length:	NA
Well Depth:	NA
GW Depth (▼):	NA

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	4"	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, slag, wood and vegetation, dark brown, moist, loose (fill)	0.0	Soil at 0-3"
4"	8'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, asphalt, and slag, grey and brown, moist, loose (fill)	0.0	
8'	12'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, asphalt, and slag, dark brown, moist, compact (fill)	0.0	Soil at 9-10'
		End of Boring		

ppm = parts per million

MW = monitoring well

TW = temporary monitoring well

bgs = below ground surface

(USDA soil texture)

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SOIL BORING LOG

Proj. Name:	RTRR
Proj. Number:	10860

Boring Data	
Boring ID:	WMU29-SB10
Total Depth:	11'

Date Completed:	12/17/2019
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Site Address:	18251 West Jefferson Riverview, Michigan
Drilled by:	ERG

MW Data	
Size:	NA
Type:	NA
Screen Length:	NA
Well Depth:	NA
GW Depth (▼):	NA

Method:	Direct push probe
Geologist:	Mitchel Dykla

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	4"	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, slag, and vegetation, dark brown, moist, loose (fill)	0.0	Soil at 0-3"
4"	8'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and slag, dark brown, moist, loose (fill)	0.0	
8'	11'	SAND, fine to medium grained, trace very fine to fine grained sand, gravel, silt, and slag, dark brown, moist, compact (fill)	0.0	Soil at 10-11'
		End of Boring		

ppm = parts per million

MW = monitoring well

TW = temporary monitoring well

bgs = below ground surface

(USDA soil texture)

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SOIL BORING LOG

Proj. Name:	RTRR
Proj. Number:	10860

Boring Data	
Boring ID:	WMU29-SB11
Total Depth:	11'

Site Address:	18251 West Jefferson
	Riverview, Michigan

Date Completed:	12/17/2019
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Drilled by:	ERG
Method:	Direct push probe
Geologist:	Mitchel Dykla

MW Data	
Size:	NA
Type:	NA
Screen Length:	NA
Well Depth:	NA
GW Depth (▼):	NA

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	4"	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and slag, brown, moist, loose (fill)	0.0	Soil at 0-3"
4"	9'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and slag, dark brown, moist, loose (fill)	0.0	
9'	11'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and slag, dark brown, moist, compact (fill)	0.0	Soil at 10-11'
		End of Boring		

ppm = parts per million

MW = monitoring well

TW = temporary monitoring well

bgs = below ground surface

(USDA soil texture)

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SOIL BORING LOG

Proj. Name:	RTRR
Proj. Number:	10860

Boring Data	
Boring ID:	WMU29-SB12
Total Depth:	12'

Date Completed:	12/17/2019
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Site Address:	18251 West Jefferson Riverview, Michigan
Drilled by:	ERG

MW Data	
Size:	NA
Type:	NA
Screen Length:	NA
Well Depth:	NA
GW Depth (▼):	NA

Method:	Direct push probe
Geologist:	Mitchel Dykla

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	4"	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and slag, brown, moist, loose (fill)	0.0	Soil at 0-3"
4"	9'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and slag, dark brown, moist, loose (fill)	0.0	
9'	12'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and slag, dark brown, moist, compact (fill)	0.0	Soil at 10-11'
		End of Boring		

ppm = parts per million

MW = monitoring well

TW = temporary monitoring well

bgs = below ground surface

(USDA soil texture)

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SOIL BORING LOG

Proj. Name:	RTRR
Proj. Number:	10860

Boring Data	
Boring ID:	WMU29-SB13
Total Depth:	7'

Date Completed:	12/17/2019
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Site Address:	18251 West Jefferson Riverview, Michigan
Drilled by:	ERG

MW Data	
Size:	NA
Type:	NA
Screen Length:	NA
Well Depth:	NA
GW Depth (▼):	NA

Method:	Direct push probe
Geologist:	Mitchel Dykla

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	4"	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, vegetation, and slag, brown, moist, loose (fill)	0.0	Soil at 0-3"
4"	7'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and slag, dark brown, moist, loose (fill)	0.0	Soil at 6-7'
		End of Boring		

ppm = parts per million

MW = monitoring well

TW = temporary monitoring well

bgs = below ground surface

(USDA soil texture)

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SOIL BORING LOG

Proj. Name:	RTRR
Proj. Number:	10860

Boring Data	
Boring ID:	WMU29-SB14
Total Depth:	11'

Date Completed:	12/17/2019
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Site Address:	18251 West Jefferson Riverview, Michigan
Drilled by:	ERG

MW Data	
Size:	NA
Type:	NA
Screen Length:	NA
Well Depth:	NA
GW Depth (▼):	NA

Method:	Direct push probe
Geologist:	Mitchel Dykla

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	4"	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, vegetation, and slag, brown, moist, loose (fill)	0.0	Soil at 0-3"
4"	9'	SAND, medium to coarse grained, trace very fine to fine grained sand, concrete, silt, and slag, dark brown, moist, loose (fill)	0.0	
9'	11'	SAND, medium to coarse grained, trace very fine to fine grained sand, concrete, silt, and slag, dark brown, moist, compact (fill)	0.0	Soil at 10-11'
		End of Boring		

ppm = parts per million

MW = monitoring well

TW = temporary monitoring well

bgs = below ground surface

(USDA soil texture)

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SOIL BORING LOG

Proj. Name:	RTRR
Proj. Number:	10860

Boring Data	
Boring ID:	WMU29-SB15
Total Depth:	7'

Date Completed:	12/17/2019
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Site Address:	18251 West Jefferson Riverview, Michigan
Drilled by:	ERG

MW Data	
Size:	NA
Type:	NA
Screen Length:	NA
Well Depth:	NA
GW Depth (▼):	NA

Method:	Direct push probe
Geologist:	Mitchel Dykla

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	8"	Concrete	0.0	Soil at 0-3"
8"	7'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and slag, dark brown, moist, loose (fill)	0.0	Soil at 6-7'
		End of Boring		

ppm = parts per million

MW = monitoring well

TW = temporary monitoring well

bgs = below ground surface

(USDA soil texture)

Sample Depth indicates depth

below the bottom of the
concrete pad.

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SOIL BORING LOG

Proj. Name:	RTRR
Proj. Number:	10860

Boring Data	
Boring ID:	WMU29-SB16
Total Depth:	7'

Date Completed:	12/17/2019
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Site Address:	18251 West Jefferson Riverview, Michigan

MW Data	
Size:	NA
Type:	NA
Screen Length:	NA
Well Depth:	NA
GW Depth (▼):	NA

Drilled by:	ERG
Method:	Direct push probe
Geologist:	Mitchel Dykla

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	8"	Concrete	0.0	Soil at 0-3"
8"	7'	SAND, medium to coarse grained, trace very fine to fine grained sand, gravel, silt, and slag, dark brown, moist, loose (fill)	0.0	Soil at 6-7'
		End of Boring		

ppm = parts per million

MW = monitoring well

TW = temporary monitoring well

bgs = below ground surface

(USDA soil texture)

Sample Depth indicates depth

below the bottom of the
concrete pad.

**Attachment C
Laboratory Analytical Report**

Waste Management Unit 29 Investigation

Monday, January 06, 2020

Fibertec Project Number: 94300
Project Identification: 5-10860 /5-10860
Submittal Date: 12/19/2019

Mr. Greg Oslosky
Applied Science & Technology, Inc. - Brighton
10448 Citation
Suite 100
Brighton, MI 48116

Dear Mr. Oslosky,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,



By Sharon Rakow at 5:40 PM, Jan 06, 2020

For Daryl P. Strandbergh
Laboratory Director

Enclosures

Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB1-0-3"	Chain of Custody:	181442
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	10:40
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-001	Matrix:	Soil/Solid
Method: ASTM D2216-10				
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	12		%	1
				Dilution
				P. Date
				P. Batch
				A. Date
				A. Batch
				Init.

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-001	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A				
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U		µg/kg	100
2. Aroclor-1221	U		µg/kg	100
3. Aroclor-1232	U		µg/kg	100
4. Aroclor-1242	U		µg/kg	100
5. Aroclor-1248	U		µg/kg	100
6. Aroclor-1254	620	J+	µg/kg	100
7. Aroclor-1260	460	J+	µg/kg	100
‡ 8. Aroclor-1262	U		µg/kg	100
‡ 9. Aroclor-1268	U		µg/kg	100
				Dilution
				P. Date
				P. Batch
				A. Date
				A. Batch
				Init.

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB1-10-11"	Chain of Custody:	181442
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	10:45
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C						Aliquot ID:	94300-002	Matrix: Soil/Solid		
Method: ASTM D2216-10						Description: WMU29-SB1-10-11"				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	9		%	1	1.0	12/26/19	MC19L226	12/27/19	MC19L226	DB

Polychlorinated Biphenyls (PCBs)						Aliquot ID:	94300-002	Matrix: Soil/Solid		
Method: EPA 3546/EPA 8082A						Description: WMU29-SB1-10-11"				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Aroclor-1016	U		µg/kg	100	5.0	12/26/19	PS19L26C	12/28/19	SC19L27C	RDK
2. Aroclor-1221	U		µg/kg	100	5.0	12/26/19	PS19L26C	12/28/19	SC19L27C	RDK
3. Aroclor-1232	U		µg/kg	100	5.0	12/26/19	PS19L26C	12/28/19	SC19L27C	RDK
4. Aroclor-1242	390		µg/kg	100	5.0	12/26/19	PS19L26C	12/28/19	SC19L27C	RDK
5. Aroclor-1248	U		µg/kg	100	5.0	12/26/19	PS19L26C	12/28/19	SC19L27C	RDK
6. Aroclor-1254	U		µg/kg	100	5.0	12/26/19	PS19L26C	12/28/19	SC19L27C	RDK
7. Aroclor-1260	U		µg/kg	100	5.0	12/26/19	PS19L26C	12/28/19	SC19L27C	RDK
‡ 8. Aroclor-1262	U		µg/kg	100	5.0	12/26/19	PS19L26C	12/28/19	SC19L27C	RDK
‡ 9. Aroclor-1268	U		µg/kg	100	5.0	12/26/19	PS19L26C	12/28/19	SC19L27C	RDK

Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB2-0-3"	Chain of Custody:	181442
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	10:52
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-003	Matrix:	Soil/Solid						
Method: ASTM D2216-10		Description: WMU29-SB2-0-3"								
		Preparation		Analysis						
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.

‡ 1. Percent Moisture (Water Content)	11	%	1	1.0	12/26/19	MC19L226	12/27/19	MC19L226	DB		
Polychlorinated Biphenyls (PCBs)											
Method: EPA 3546/EPA 8082A											
		Preparation		Analysis							
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.	
1. Aroclor-1016	U	µg/kg	100	5.0	12/26/19	PS19L26C	12/30/19	SF19L30A	RDK		
2. Aroclor-1221	U	µg/kg	100	5.0	12/26/19	PS19L26C	12/30/19	SF19L30A	RDK		
3. Aroclor-1232	U	µg/kg	100	5.0	12/26/19	PS19L26C	12/30/19	SF19L30A	RDK		
4. Aroclor-1242	U	µg/kg	100	5.0	12/26/19	PS19L26C	12/30/19	SF19L30A	RDK		
5. Aroclor-1248	U	µg/kg	100	5.0	12/26/19	PS19L26C	12/30/19	SF19L30A	RDK		
6. Aroclor-1254	160	J+	µg/kg	100	5.0	12/26/19	PS19L26C	12/30/19	SF19L30A	RDK	
7. Aroclor-1260	200	J+	µg/kg	100	5.0	12/26/19	PS19L26C	01/03/20	SF20A03A	RDK	
‡ 8. Aroclor-1262	U	µg/kg	100	5.0	12/26/19	PS19L26C	12/30/19	SF19L30A	RDK		
‡ 9. Aroclor-1268	U	µg/kg	100	5.0	12/26/19	PS19L26C	12/30/19	SF19L30A	RDK		



Analytical Laboratory Report
Laboratory Project Number: 94300
Laboratory Sample Number: 94300-004

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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB2-10-11'	Chain of Custody:	181442
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	10:57
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-004	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB2-10-11'		
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	10		%	1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-004	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB2-10-11'		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U		µg/kg	100
2. Aroclor-1221	U		µg/kg	100
3. Aroclor-1232	U		µg/kg	100
4. Aroclor-1242	U		µg/kg	100
5. Aroclor-1248	U		µg/kg	100
6. Aroclor-1254	U		µg/kg	100
7. Aroclor-1260	U		µg/kg	100
‡ 8. Aroclor-1262	U		µg/kg	100
‡ 9. Aroclor-1268	U		µg/kg	100

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB3-0-3"	Chain of Custody:	181442
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	11:01
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-005	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB3-0-3"		
		Preparation		Analysis
Parameter(s)	Result	Q	Units	Reporting Limit

‡ 1. Percent Moisture (Water Content)	10	%	1	1.0	12/26/19	MC19L226	12/27/19	MC19L226	DB
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Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-005	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB3-0-3"		
		Preparation		Analysis
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U	µg/kg	100	5.0
2. Aroclor-1221	U	µg/kg	100	5.0
3. Aroclor-1232	U	µg/kg	100	5.0
4. Aroclor-1242	U	µg/kg	100	5.0
5. Aroclor-1248	U	µg/kg	100	5.0
6. Aroclor-1254	1200	J+	µg/kg	370
7. Aroclor-1260	820	J+	µg/kg	100
‡ 8. Aroclor-1262	U	µg/kg	100	5.0
‡ 9. Aroclor-1268	U	µg/kg	100	5.0

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Analytical Laboratory Report
Laboratory Project Number: 94300
Laboratory Sample Number: 94300-006

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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB3-11-12'	Chain of Custody:	181442
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	11:08
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-006	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB3-11-12'		
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	11		%	1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-006	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB3-11-12'		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U		µg/kg	100
2. Aroclor-1221	U		µg/kg	100
3. Aroclor-1232	U		µg/kg	100
4. Aroclor-1242	330		µg/kg	100
5. Aroclor-1248	U		µg/kg	100
6. Aroclor-1254	480	J+	µg/kg	100
7. Aroclor-1260	350	J+	µg/kg	100
‡ 8. Aroclor-1262	U		µg/kg	100
‡ 9. Aroclor-1268	U		µg/kg	100

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB4-0-3"	Chain of Custody:	181442
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	11:13
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-007	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB4-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	12	%		1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-007	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB4-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U	µg/kg		100
2. Aroclor-1221	U	µg/kg		100
3. Aroclor-1232	U	µg/kg		100
4. Aroclor-1242	U	µg/kg		100
5. Aroclor-1248	U	µg/kg		100
6. Aroclor-1254	U	µg/kg		100
7. Aroclor-1260	120	µg/kg		100
‡ 8. Aroclor-1262	U	µg/kg		100
‡ 9. Aroclor-1268	U	µg/kg		100

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Analytical Laboratory Report
Laboratory Project Number: 94300
Laboratory Sample Number: 94300-008

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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB4-11-12'	Chain of Custody:	181442
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	11:19
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-008	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB4-11-12'		
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	10		%	1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-008	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB4-11-12'		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U		µg/kg	100
2. Aroclor-1221	U		µg/kg	100
3. Aroclor-1232	U		µg/kg	100
4. Aroclor-1242	U		µg/kg	100
5. Aroclor-1248	U		µg/kg	100
6. Aroclor-1254	U		µg/kg	100
7. Aroclor-1260	U		µg/kg	100
‡ 8. Aroclor-1262	U		µg/kg	100
‡ 9. Aroclor-1268	U		µg/kg	100

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Analytical Laboratory Report
Laboratory Project Number: 94300
Laboratory Sample Number: 94300-009

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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB5-0-3"	Chain of Custody:	181442
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	11:23
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-009	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB5-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
† 1. Percent Moisture (Water Content)	13		%	1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-009	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB5-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U		µg/kg	380
2. Aroclor-1221	U		µg/kg	380
3. Aroclor-1232	U		µg/kg	380
4. Aroclor-1242	U		µg/kg	380
5. Aroclor-1248	U		µg/kg	380
6. Aroclor-1254	1700	J+	µg/kg	380
7. Aroclor-1260	1700	J+	µg/kg	380
† 8. Aroclor-1262	U		µg/kg	380
† 9. Aroclor-1268	U		µg/kg	380

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Analytical Laboratory Report
Laboratory Project Number: 94300
Laboratory Sample Number: 94300-010

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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB5-10-11'	Chain of Custody:	181442
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	11:29
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-010	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB5-10-11'		
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	11		%	1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-010	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB5-10-11'		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U		µg/kg	100
2. Aroclor-1221	U		µg/kg	100
3. Aroclor-1232	U		µg/kg	100
4. Aroclor-1242	U		µg/kg	100
5. Aroclor-1248	U		µg/kg	100
6. Aroclor-1254	U		µg/kg	100
7. Aroclor-1260	U		µg/kg	100
‡ 8. Aroclor-1262	U		µg/kg	100
‡ 9. Aroclor-1268	U		µg/kg	100

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Analytical Laboratory Report
Laboratory Project Number: 94300
Laboratory Sample Number: 94300-011

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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB6-0-3"	Chain of Custody:	181443
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	11:35
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-011	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB6-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	11		%	1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-011	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB6-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U		µg/kg	100
2. Aroclor-1221	U		µg/kg	100
3. Aroclor-1232	U		µg/kg	100
4. Aroclor-1242	U		µg/kg	100
5. Aroclor-1248	U		µg/kg	100
6. Aroclor-1254	520	J+	µg/kg	100
7. Aroclor-1260	400	J+	µg/kg	100
‡ 8. Aroclor-1262	U		µg/kg	100
‡ 9. Aroclor-1268	U		µg/kg	100

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Analytical Laboratory Report
Laboratory Project Number: 94300
Laboratory Sample Number: 94300-012

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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB6-11-12'	Chain of Custody:	181443
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	11:40
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-012	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB6-11-12'		
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	10		%	1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-012	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB6-11-12'		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U		µg/kg	100
2. Aroclor-1221	U		µg/kg	100
3. Aroclor-1232	U		µg/kg	100
4. Aroclor-1242	U		µg/kg	100
5. Aroclor-1248	U		µg/kg	100
6. Aroclor-1254	U		µg/kg	100
7. Aroclor-1260	U		µg/kg	100
‡ 8. Aroclor-1262	U		µg/kg	100
‡ 9. Aroclor-1268	U		µg/kg	100

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB7-0-3"	Chain of Custody:	181443
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	09:03
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-013	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB7-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	12		%	1
				Dilution
				P. Date
				P. Batch
				A. Date
				A. Batch
				Init.

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-013	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB7-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U		µg/kg	1500
2. Aroclor-1221	U		µg/kg	1500
3. Aroclor-1232	U		µg/kg	1500
4. Aroclor-1242	U		µg/kg	1500
5. Aroclor-1248	U		µg/kg	1500
6. Aroclor-1254	7700	J+	µg/kg	1500
7. Aroclor-1260	5000	J+	µg/kg	1500
‡ 8. Aroclor-1262	U		µg/kg	1500
‡ 9. Aroclor-1268	U		µg/kg	1500
				Dilution
				P. Date
				P. Batch
				A. Date
				A. Batch
				Init.

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB7-10-11'	Chain of Custody:	181443
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	09:12
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C						Aliquot ID:	94300-014	Matrix: Soil/Solid		
Method: ASTM D2216-10						Description: WMU29-SB7-10-11'				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	9		%	1	1.0	12/26/19	MC19L226	12/27/19	MC19L226	DB

Polychlorinated Biphenyls (PCBs)						Aliquot ID:	94300-014	Matrix: Soil/Solid		
Method: EPA 3546/EPA 8082A						Description: WMU29-SB7-10-11'				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Aroclor-1016	U		µg/kg	100	5.0	12/26/19	PS19L26D	12/27/19	SF19L26A	RDK
2. Aroclor-1221	U		µg/kg	100	5.0	12/26/19	PS19L26D	12/27/19	SF19L26A	RDK
3. Aroclor-1232	U		µg/kg	100	5.0	12/26/19	PS19L26D	12/27/19	SF19L26A	RDK
4. Aroclor-1242	U		µg/kg	100	5.0	12/26/19	PS19L26D	12/27/19	SF19L26A	RDK
5. Aroclor-1248	U		µg/kg	100	5.0	12/26/19	PS19L26D	12/27/19	SF19L26A	RDK
6. Aroclor-1254	U		µg/kg	100	5.0	12/26/19	PS19L26D	12/27/19	SF19L26A	RDK
7. Aroclor-1260	U		µg/kg	100	5.0	12/26/19	PS19L26D	12/27/19	SF19L26A	RDK
‡ 8. Aroclor-1262	U		µg/kg	100	5.0	12/26/19	PS19L26D	12/27/19	SF19L26A	RDK
‡ 9. Aroclor-1268	U		µg/kg	100	5.0	12/26/19	PS19L26D	12/27/19	SF19L26A	RDK

Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB8-0-3"	Chain of Custody:	181443
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	09:17
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-015	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB8-0-3"		
		Preparation		Analysis
Parameter(s)	Result	Q	Units	Reporting Limit

‡ 1. Percent Moisture (Water Content)	10	%	1	1.0	12/26/19	MC19L226	12/27/19	MC19L226	DB
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Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-015	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB8-0-3"		
		Preparation		Analysis
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U	µg/kg	370	25
2. Aroclor-1221	U	µg/kg	370	25
3. Aroclor-1232	U	µg/kg	370	25
4. Aroclor-1242	U	µg/kg	370	25
5. Aroclor-1248	U	µg/kg	370	25
6. Aroclor-1254	1300	J+	µg/kg	370
7. Aroclor-1260	1500	J+	µg/kg	370
‡ 8. Aroclor-1262	U	µg/kg	370	25
‡ 9. Aroclor-1268	U	µg/kg	370	25

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Analytical Laboratory Report
Laboratory Project Number: 94300
Laboratory Sample Number: 94300-016

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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB8-9-10'	Chain of Custody:	181443
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	09:25
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-016	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB8-9-10'		
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	12		%	1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-016	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB8-9-10'		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U		µg/kg	100
2. Aroclor-1221	U		µg/kg	100
3. Aroclor-1232	U		µg/kg	100
4. Aroclor-1242	420		µg/kg	100
5. Aroclor-1248	U		µg/kg	100
6. Aroclor-1254	410	J+	µg/kg	100
7. Aroclor-1260	230	J+	µg/kg	100
‡ 8. Aroclor-1262	U		µg/kg	100
‡ 9. Aroclor-1268	U		µg/kg	100

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Analytical Laboratory Report
Laboratory Project Number: 94300
Laboratory Sample Number: 94300-017

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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB9-0-3"	Chain of Custody:	181443
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	09:29
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-017	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB9-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	11		%	1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-017	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB9-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U		µg/kg	100
2. Aroclor-1221	U		µg/kg	100
3. Aroclor-1232	U		µg/kg	100
4. Aroclor-1242	U		µg/kg	100
5. Aroclor-1248	U		µg/kg	100
6. Aroclor-1254	420	J+	µg/kg	100
7. Aroclor-1260	420	J+	µg/kg	100
‡ 8. Aroclor-1262	U		µg/kg	100
‡ 9. Aroclor-1268	U		µg/kg	100

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Analytical Laboratory Report
Laboratory Project Number: 94300
Laboratory Sample Number: 94300-018

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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB9-9-10'	Chain of Custody:	181443
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	09:40
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-018	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB9-9-10'		
Parameter(s)	Result	Q	Units	Reporting Limit
† 1. Percent Moisture (Water Content)	14	%		1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-018	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB9-9-10'		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U	µg/kg		100
2. Aroclor-1221	U	µg/kg		100
3. Aroclor-1232	U	µg/kg		100
4. Aroclor-1242	U	µg/kg		100
5. Aroclor-1248	U	µg/kg		100
6. Aroclor-1254	U	µg/kg		100
7. Aroclor-1260	270	µg/kg		100
† 8. Aroclor-1262	U	µg/kg		100
† 9. Aroclor-1268	U	µg/kg		100

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Analytical Laboratory Report
Laboratory Project Number: 94300
Laboratory Sample Number: 94300-019

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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB10-0-3"	Chain of Custody:	181443
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	09:44
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-019	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB10-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	12		%	1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-019	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB10-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U		µg/kg	100
2. Aroclor-1221	U		µg/kg	100
3. Aroclor-1232	U		µg/kg	100
4. Aroclor-1242	U		µg/kg	100
5. Aroclor-1248	U		µg/kg	100
6. Aroclor-1254	U		µg/kg	100
7. Aroclor-1260	U		µg/kg	100
‡ 8. Aroclor-1262	U		µg/kg	100
‡ 9. Aroclor-1268	U		µg/kg	100

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB10-10-11'	Chain of Custody:	181443
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	09:51
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C						Aliquot ID:	94300-020	Matrix: Soil/Solid		
Method: ASTM D2216-10						Description: WMU29-SB10-10-11'				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	12		%	1	1.0	12/26/19	MC19L226	12/27/19	MC19L226	DB

Polychlorinated Biphenyls (PCBs)						Aliquot ID:	94300-020	Matrix: Soil/Solid		
Method: EPA 3546/EPA 8082A						Description: WMU29-SB10-10-11'				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Aroclor-1016	U		µg/kg	100	5.0	12/26/19	PS19L26F	12/29/19	SF19L28B	RDK
2. Aroclor-1221	U		µg/kg	100	5.0	12/26/19	PS19L26F	12/29/19	SF19L28B	RDK
3. Aroclor-1232	U		µg/kg	100	5.0	12/26/19	PS19L26F	12/29/19	SF19L28B	RDK
4. Aroclor-1242	U		µg/kg	100	5.0	12/26/19	PS19L26F	12/29/19	SF19L28B	RDK
5. Aroclor-1248	U		µg/kg	100	5.0	12/26/19	PS19L26F	12/29/19	SF19L28B	RDK
6. Aroclor-1254	U		µg/kg	100	5.0	12/26/19	PS19L26F	12/29/19	SF19L28B	RDK
7. Aroclor-1260	190		µg/kg	100	5.0	12/26/19	PS19L26F	12/29/19	SF19L28B	RDK
‡ 8. Aroclor-1262	U		µg/kg	100	5.0	12/26/19	PS19L26F	12/29/19	SF19L28B	RDK
‡ 9. Aroclor-1268	U		µg/kg	100	5.0	12/26/19	PS19L26F	12/29/19	SF19L28B	RDK



Analytical Laboratory Report
Laboratory Project Number: 94300
Laboratory Sample Number: 94300-021

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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB11-0-3"	Chain of Custody:	181444
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	09:56
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-021	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB11-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
† 1. Percent Moisture (Water Content)	9		%	1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-021	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB11-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U		µg/kg	100
2. Aroclor-1221	U		µg/kg	100
3. Aroclor-1232	U		µg/kg	100
4. Aroclor-1242	U		µg/kg	100
5. Aroclor-1248	U		µg/kg	100
6. Aroclor-1254	U		µg/kg	100
7. Aroclor-1260	290		µg/kg	100
† 8. Aroclor-1262	U		µg/kg	100
† 9. Aroclor-1268	U		µg/kg	100

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Analytical Laboratory Report
Laboratory Project Number: 94300
Laboratory Sample Number: 94300-022

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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB11-10-11'	Chain of Custody:	181444
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	10:02
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-022	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB11-10-11'		
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	12	%		1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-022	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB11-10-11'		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U	µg/kg	100	5.0
2. Aroclor-1221	U	µg/kg	100	5.0
3. Aroclor-1232	U	µg/kg	100	5.0
4. Aroclor-1242	280	µg/kg	100	5.0
5. Aroclor-1248	U	µg/kg	100	5.0
6. Aroclor-1254	370	J+	µg/kg	100
7. Aroclor-1260	290	J+	µg/kg	100
‡ 8. Aroclor-1262	U	µg/kg	100	5.0
‡ 9. Aroclor-1268	U	µg/kg	100	5.0

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB12-0-3'	Chain of Custody:	181444
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	10:06
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-023	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB12-0-3'		
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	15		%	1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-023	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB12-0-3'		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U		µg/kg	100
2. Aroclor-1221	U		µg/kg	100
3. Aroclor-1232	U		µg/kg	100
4. Aroclor-1242	U		µg/kg	100
5. Aroclor-1248	U		µg/kg	100
6. Aroclor-1254	540	J+	µg/kg	100
7. Aroclor-1260	420	J+	µg/kg	100
‡ 8. Aroclor-1262	U		µg/kg	100
‡ 9. Aroclor-1268	U		µg/kg	100

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB12-11-12'	Chain of Custody:	181444
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	10:12
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C						Aliquot ID:	94300-024	Matrix: Soil/Solid		
Method: ASTM D2216-10						Description: WMU29-SB12-11-12'				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	18		%	1	1.0	12/26/19	MC191226	12/27/19	MC191226	DB

Polychlorinated Biphenyls (PCBs)						Aliquot ID:	94300-024	Matrix: Soil/Solid		
Method: EPA 3546/EPA 8082A						Description: WMU29-SB12-11-12'				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Aroclor-1016	U		µg/kg	410	25	12/26/19	PS19L26F	01/03/20	SF20A03A	RDK
2. Aroclor-1221	U		µg/kg	410	25	12/26/19	PS19L26F	01/03/20	SF20A03A	RDK
3. Aroclor-1232	U		µg/kg	410	25	12/26/19	PS19L26F	01/03/20	SF20A03A	RDK
4. Aroclor-1242	U		µg/kg	410	25	12/26/19	PS19L26F	01/03/20	SF20A03A	RDK
5. Aroclor-1248	U		µg/kg	410	25	12/26/19	PS19L26F	01/03/20	SF20A03A	RDK
6. Aroclor-1254	1700		µg/kg	410	25	12/26/19	PS19L26F	01/03/20	SF20A03A	RDK
7. Aroclor-1260	U		µg/kg	410	25	12/26/19	PS19L26F	01/03/20	SF20A03A	RDK
‡ 8. Aroclor-1262	U		µg/kg	410	25	12/26/19	PS19L26F	01/03/20	SF20A03A	RDK
‡ 9. Aroclor-1268	U		µg/kg	410	25	12/26/19	PS19L26F	01/03/20	SF20A03A	RDK



Analytical Laboratory Report
Laboratory Project Number: 94300
Laboratory Sample Number: 94300-025

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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB13-0-3"	Chain of Custody:	181444
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	10:18
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-025	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB13-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	20		%	1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-025	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB13-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U		µg/kg	410
2. Aroclor-1221	U		µg/kg	410
3. Aroclor-1232	U		µg/kg	410
4. Aroclor-1242	U		µg/kg	410
5. Aroclor-1248	U		µg/kg	410
6. Aroclor-1254	1400	J+	µg/kg	410
7. Aroclor-1260	1200	J+	µg/kg	410
‡ 8. Aroclor-1262	U		µg/kg	410
‡ 9. Aroclor-1268	U		µg/kg	410

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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB13-6-7'	Chain of Custody:	181444
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	10:21
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-026	Matrix:	Soil/Solid						
Method: ASTM D2216-10		Description: WMU29-SB13-6-7'								
		Preparation	Analysis							
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.

† 1. Percent Moisture (Water Content)	12	%	1	1.0	12/26/19	MC19L226	12/27/19	MC19L226	DB	
Polychlorinated Biphenyls (PCBs)										
Method: EPA 3546/EPA 8082A										
		Aliquot ID:		94300-026	Matrix:		Soil/Solid			
		Description:		WMU29-SB13-6-7'						
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Aroclor-1016	U	µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK	
2. Aroclor-1221	U	µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK	
3. Aroclor-1232	U	µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK	
4. Aroclor-1242	210	µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK	
5. Aroclor-1248	U	µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK	
6. Aroclor-1254	240	µg/kg	100	5.0	12/27/19	PS19L27D	01/04/20	SF20A04B	TKT	
7. Aroclor-1260	U	µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK	
‡ 8. Aroclor-1262	U	µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK	
‡ 9. Aroclor-1268	U	µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK	

Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB14-0-3"	Chain of Custody:	181444
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	10:28
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-027	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB14-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	14		%	1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-027	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB14-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U		µg/kg	100
2. Aroclor-1221	U		µg/kg	100
3. Aroclor-1232	U		µg/kg	100
4. Aroclor-1242	U		µg/kg	100
5. Aroclor-1248	U		µg/kg	100
6. Aroclor-1254	580	J+	µg/kg	100
7. Aroclor-1260	460	J+	µg/kg	100
‡ 8. Aroclor-1262	U		µg/kg	100
‡ 9. Aroclor-1268	U		µg/kg	100

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB14-10-11'	Chain of Custody:	181444
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	10:34
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C						Aliquot ID:	94300-028	Matrix: Soil/Solid		
Method: ASTM D2216-10						Description: WMU29-SB14-10-11'				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	16		%	1	1.0	12/26/19	MC191226	12/27/19	MC191226	DB

Polychlorinated Biphenyls (PCBs)						Aliquot ID:	94300-028	Matrix: Soil/Solid		
Method: EPA 3546/EPA 8082A						Description: WMU29-SB14-10-11'				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Aroclor-1016	U		µg/kg	100	5.0	12/27/19	PS19L27D	01/04/20	SF20A04B	TKT
2. Aroclor-1221	U		µg/kg	100	5.0	12/27/19	PS19L27D	01/04/20	SF20A04B	TKT
3. Aroclor-1232	U		µg/kg	100	5.0	12/27/19	PS19L27D	01/04/20	SF20A04B	TKT
4. Aroclor-1242	U		µg/kg	100	5.0	12/27/19	PS19L27D	01/04/20	SF20A04B	TKT
5. Aroclor-1248	U		µg/kg	100	5.0	12/27/19	PS19L27D	01/04/20	SF20A04B	TKT
6. Aroclor-1254	870	J+	µg/kg	100	5.0	12/27/19	PS19L27D	01/04/20	SF20A04B	TKT
7. Aroclor-1260	1000	J+	µg/kg	100	5.0	12/27/19	PS19L27D	01/04/20	SF20A04B	TKT
‡ 8. Aroclor-1262	U		µg/kg	100	5.0	12/27/19	PS19L27D	01/04/20	SF20A04B	TKT
‡ 9. Aroclor-1268	U		µg/kg	100	5.0	12/27/19	PS19L27D	01/04/20	SF20A04B	TKT

1914 Holloway Drive
11766 E. Grand River
8660 S. Mackinaw Trail

Holt, MI 48842
Brighton, MI 48116
Cadillac, MI 49601

T: (517) 699-0345
T: (810) 220-3300
T: (231) 775-8368

F: (517) 699-0388
F: (810) 220-3311
F: (231) 775-8584

Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB15-0-3"	Chain of Custody:	181444
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	11:49
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-029	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB15-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	8		%	1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-029	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB15-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U		µg/kg	72000
2. Aroclor-1221	U		µg/kg	72000
3. Aroclor-1232	U		µg/kg	72000
4. Aroclor-1242	U		µg/kg	72000
5. Aroclor-1248	U		µg/kg	72000
6. Aroclor-1254	1800000	J+	µg/kg	360000
7. Aroclor-1260	400000	J+	µg/kg	72000
‡ 8. Aroclor-1262	U		µg/kg	72000
‡ 9. Aroclor-1268	U		µg/kg	72000

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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB15-6-7	Chain of Custody:	181444
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	11:54
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-030	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB15-6-7		
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	6	%		1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-030	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB15-6-7		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U	µg/kg		100
2. Aroclor-1221	U	µg/kg		100
3. Aroclor-1232	U	µg/kg		100
4. Aroclor-1242	U	µg/kg		100
5. Aroclor-1248	U	µg/kg		100
6. Aroclor-1254	150	µg/kg		100
7. Aroclor-1260	U	µg/kg		100
‡ 8. Aroclor-1262	U	µg/kg		100
‡ 9. Aroclor-1268	U	µg/kg		100

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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB16-0-3"	Chain of Custody:	181445
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	12:07
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-031	Matrix:	Soil/Solid
Method: ASTM D2216-10		Description: WMU29-SB16-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
‡ 1. Percent Moisture (Water Content)	7		%	1

Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-031	Matrix:	Soil/Solid
Method: EPA 3546/EPA 8082A		Description: WMU29-SB16-0-3"		
Parameter(s)	Result	Q	Units	Reporting Limit
1. Aroclor-1016	U		µg/kg	100
2. Aroclor-1221	U		µg/kg	100
3. Aroclor-1232	U		µg/kg	100
4. Aroclor-1242	U		µg/kg	100
5. Aroclor-1248	U		µg/kg	100
6. Aroclor-1254	270	J+	µg/kg	100
7. Aroclor-1260	210	J+	µg/kg	100
‡ 8. Aroclor-1262	U		µg/kg	100
‡ 9. Aroclor-1268	U		µg/kg	100

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Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-SB16-6-7'	Chain of Custody:	181445
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	12:13
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C	Aliquot ID:	94300-032	Matrix:	Soil/Solid						
Method: ASTM D2216-10		Description: WMU29-SB16-6-7'								
		Preparation	Analysis							
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.

† 1. Percent Moisture (Water Content)	8	%	1	1.0	12/26/19	MC19L226	12/27/19	MC19L226	DB
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Polychlorinated Biphenyls (PCBs)	Aliquot ID:	94300-032	Matrix:	Soil/Solid						
Method: EPA 3546/EPA 8082A		Description: WMU29-SB16-6-7'								
		Preparation	Analysis							
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Aroclor-1016	U		µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK
2. Aroclor-1221	U		µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK
3. Aroclor-1232	U		µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK
4. Aroclor-1242	190		µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK
5. Aroclor-1248	U		µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK
6. Aroclor-1254	240	J+	µg/kg	100	5.0	12/27/19	PS19L27D	12/30/19	SF19L30A	RDK
7. Aroclor-1260	U		µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK
† 8. Aroclor-1262	U		µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK
† 9. Aroclor-1268	U		µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK

Client Identification:	Applied Science & Technology, Inc. - Brighton	Sample Description:	WMU29-Dup 1	Chain of Custody:	181445
Client Project Name:	5-10860	Sample No:		Collect Date:	12/17/19
Client Project No:	5-10860	Sample Matrix:	Soil/Solid	Collect Time:	NA
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

Water (Moisture) Content Dried at 105 ± 5°C						Aliquot ID:	94300-033	Matrix: Soil/Solid		
Method: ASTM D2216-10						Description: WMU29-Dup 1				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
† 1. Percent Moisture (Water Content)	11		%	1	1.0	12/26/19	MC19L226	12/27/19	MC19L226	DB

Polychlorinated Biphenyls (PCBs)						Aliquot ID:	94300-033	Matrix: Soil/Solid		
Method: EPA 3546/EPA 8082A						Description: WMU29-Dup 1				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Aroclor-1016	U		µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK
2. Aroclor-1221	U		µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK
3. Aroclor-1232	U		µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK
4. Aroclor-1242	U		µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK
5. Aroclor-1248	U		µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK
6. Aroclor-1254	U		µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK
7. Aroclor-1260	U		µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK
† 8. Aroclor-1262	U		µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK
† 9. Aroclor-1268	U		µg/kg	100	5.0	12/27/19	PS19L27D	12/28/19	SC19L27C	RDK

Definitions/ Qualifiers:

- A: Spike recovery or precision unusable due to dilution.
- B: The analyte was detected in the associated method blank.
- E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J: The concentration is an estimated value.
- M: Modified Method
- U: The analyte was not detected at or above the reporting limit.
- X: Matrix Interference has resulted in a raised reporting limit or distorted result.
- W: Results reported on a wet-weight basis.
- *: Value reported is outside QC limits

Exception Summary:

- J+ : The result is an estimated quantity, but the result may be biased high.

Analysis Locations:

All analyses performed in Holt.



Accreditation Number(s):

T104704518-19-8 (TX)

Analytical Laboratory

1914 Holloway Drive 8660 S. Mackinaw Trail
Holt, MI 48842 Cadillac, MI 49601
Phone: 517 699 0345 Phone: 231 775 8368
Fax: 517 699 0388 Fax: 231 775 8584
email: lab@fibertec.us

Industrial Hygiene Services, Inc.

1914 Holloway Drive 11766 E. Grand River Rd.
Holt, MI 48842 Brighton, MI 48116
Phone: 517 699 0345 Phone: 810 220 3300
Fax: 517 699 0382 Fax: 810 220 3311
email: asbestos@fibertecihs.com

Geoprobe

11766 E. Grand River Rd.
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody #

181442

PAGE 1 of 4

Client Name: ASTI Environmental				MATRIX [SEE RIGHT CORNER FOR CODE]	# OF CONTAINERS	PARAMETERS						Matrix Code				Deliverables					
Contact Person: Greg Oslasky						S	Soil	GW	Ground Water												
Project Name/ Number: 5-10860						A	Air	SW	Surface Water												
Email distribution list: goslasky@asti-env.com mdykla@asti-env.com						O	Oil	WW	Waste Water												
				P	Wipe	X	Other: Specify														
														Remarks:							
														Received By Lab							
														DEC 19 2019							
														Initials: <u>TM</u>							
Purchase Order#																					
Date	Time	Sample #	Client Sample Descriptor	MATRIX	# OF CONTAINERS	PCB															
12-17-19	1040		WMUZ9-SB1-0-3"	5	1	X															
	1045		WMUZ9-SB1-10-11'	1	1																
	1052		WMUZ9-SB2-0-3"	1	1																
	1057		WMUZ9-SB2-10-11'	1	1																
	1101		WMUZ9-SB3-0-3"	1	1																
	1108		WMUZ9-SB3-11-12'	1	1																
	1113		WMUZ9-SB4-0-3"	1	1																
	1119		WMUZ9-SB4-11-12'	1	1																
↓	1123		WMUZ9-SB5-0-3"	1	1																
	1129		WMUZ9-SB5-10-11'	1	1																
Comments:																					
Sampled/Relinquished By: Mitchel Tykla				Date/ Time 12-17-19 14:00			Received By: ASTI Cold Storage														
Relinquished By: ASTI Cold Storage				Date/ Time			Received By: Reh J. Shad 12/19/19 2:30														
Relinquished By: Reh J. Shad				Date/ Time 12/19/19 4:02			Received By Laboratory: Reh J. Shad														
Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY																					
LAB USE ONLY																					
1 bus. day				2 bus. days				3 bus. days				4 bus. days				Fibertec project number: 94300					
<input checked="" type="checkbox"/> 5-7 bus. days (standard)				Other (specify time/date requirement): _____												Temperature upon receipt at Lab: 2.8°C					
Please see back for terms and conditions																					

Received
On Ice

Analytical Laboratory

1914 Holloway Drive 8660 S. Mackinaw Trail
Holt, MI 48842 Cadillac, MI 49601
Phone: 517 699 0345 Phone: 231 775 8368
Fax: 517 699 0388 Fax: 231 775 8584
email: lab@fibertec.us

Industrial Hygiene Services, Inc.

1914 Holloway Drive 11766 E. Grand River Rd.
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Fax: 517 699 0382 Fax: 810 220 3311
email: asbestos@fibertecihhs.com

Geoprobe

11766 E. Grand River Rd.
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody #

181443
PAGE 2 of 4

Client Name: ASTI Environmental															
Contact Person: Greg Oslosky															
Project Name/ Number: 5-10860															
Email distribution list: goslosky@asti-env.com mdykla@asti-env.com															
Quote#															
Purchase Order#															
Date	Time	Sample #	Client Sample Descriptor			MATRIX [SEE RIGHT CORNER FOR CODE]	# OF CONTAINERS	PCB	PARAMETERS				HOLD SAMPLE	Matrix Code	Deliverables
12-17-19	1135		WMUZ9-SB6-0-3"						S	I	X				
	1140		WMUZ9-SB6-11-121			A									
	9:03		WMUZ9-SB7-0-3"			O									
	9:12		WMUZ9-SB7-10-11"			P									
	917		WMUZ9-SB8-0-3"												
	925		WMUZ9-SB8-9-101												
	929		WMUZ9-SB9-0-3"												
	940		WMUZ9-SB9-9-101												
	944		WMUZ9-SB10-0-34												
	951		WMUZ9-SB10-10-111												

Comments:

Sampled/Relinquished By: <i>Mitchel Lykka</i>	Date/ Time 12-17-19 14:00	Received By: <i>ASTI Cold Storage</i>		
Relinquished By: <i>ASTI Cold Storage</i>	Date/ Time	Received By:		
Relinquished by: <i>Nehat Shah</i>	Date/ Time 12/19/19 4:02	Received By Laboratory: <i>Nehat Shah 12/19/19 2:30</i>		
Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY				
1 bus. day	2 bus. days	3 bus. days	4 bus. days	LAB USE ONLY
<input checked="" type="checkbox"/> 5-7 bus. days (standard)	Other (specify time/date requirement): _____			Fibertec project number: 94300
				Temperature upon receipt at Lab: 2.8°C
Received On Ice				
Please see back for terms and conditions				

Analytical Laboratory

1914 Holloway Drive 8660 S. Mackinaw Trail
Holt, MI 48842 Cadillac, MI 49601
Phone: 517 699 0345 Phone: 231 775 8368
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Industrial Hygiene Services, Inc.

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11766 E. Grand River Rd.
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody #

181444

PAGE 3 of 4

Client Name: ASTI Environmental				PARAMETERS	Matrix Code				Deliverables		
Contact Person: Greg Oslsky					S	Soil	GW	Ground Water			
Project Name/ Number: 5-10860					A	Air	SW	Surface Water			
Email distribution list: goslosky@asti-env.com mdykla@asti-env.com					O	Oil	WW	Waste Water			
				P	Wipe	X	Other: Specify				
				Remarks:							
Date	Time	Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PCBS	HOLD SAMPLE				
12-17-19	9:56		WMUZ9-SB11-0-3"	S	1	X					
	10:02		WMUZ9-SB11-10-11"		1						
	10:06		WMUZ9-SB12-0-3"		1						
	10:12		WMUZ9-SB12-11-12"		1						
	10:18		WMUZ9-SB13-0-3"		1						
	10:21		WMUZ9-SB13-6-7"		1						
	10:28		WMUZ9-SB14-0-3"		1						
	10:34		WMUZ9-SB14-10-11"		1						
	11:49		WMUZ9-SB15-0-3"		1						
	11:54		WMUZ9-SB15-0-7		1						
Comments:											
Sampled/Relinquished By: Mitchell Oslsky			Date/ Time: 12-17-19 1400	Received By: ASTI Cold Storage							
Relinquished By: ASTI Cold Storage			Date/ Time	Received By:							
Relinquished By: ASTI Cold Storage			Date/ Time: 12/19/19 4:02	Received By Laboratory: Lab at Shady 12/19/19 2:30							
Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY											
1 bus. day 2 bus. days 3 bus. days 4 bus. days											
<input checked="" type="checkbox"/> 5-7 bus. days (standard) Other (specify time/date requirement): _____											
Fibertec project number: 94300											
Temperature upon receipt at Lab: 2.8°C											
LAB USE ONLY											
Received On Ice											
Please see back for terms and conditions											

Analytical Laboratory

1914 Holloway Drive 8660 S. Mackinaw Trail
Holt, MI 48842 Cadillac, MI 49601
Phone: 517 699 0345 Phone: 231 775 8368
Fax: 517 699 0388 Fax: 231 775 8584
email: lab@fibertec.us

Industrial Hygiene Services, Inc.

1914 Holloway Drive 11766 E. Grand River Rd.
Holt, MI 48842 Brighton, MI 48116
Phone: 517 699 0345 Phone: 810 220 3300
Fax: 517 699 0382 Fax: 810 220 3311
email: asbestos@fibertecihls.com

Geoprobe

11766 E. Grand River Rd.
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody #

181445
PAGE 4 of 4

Client Name: **ASTI Environmental**

Contact Person: **Grey Oslosky**

Project Name/ Number:

5-10860

Email distribution list:

goslosky@asti-env.com mdykla@asti-env.com

Quote#

Purchase Order#

Date	Time	Sample #	Client Sample Descriptor
12-17-19	1207		WMU Z9-SB16-0-3"
↓	1213		WMU Z9-SB16-6-7'
—			WMU Z9-Dup1

Comments:

Sampled/Relinquished By: <i>Mitchell Dykla</i>	Date/ Time 12-17-19 1400	Received By: <i>ASTI Cold Storage</i>
Relinquished By: <i>ASTI Cold Storage</i>	Date/ Time	Received By: <i>Dale at Shred 12/19/19 2:30</i>
Relinquished By: <i>Dale Shred</i>	Date/ Time 12/19/19 4:02	Received By Laboratory: <i>J</i>
Turnaround time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY		
1 bus. day	2 bus. days	3 bus. days
4 bus. days	LAB USE ONLY	
<input checked="" type="checkbox"/> 5-7 bus. days (standard)	Other (specify time/date requirement): _____	
Fibertec project number: 94300		
Temperature upon receipt at Lab: 2.8°		
Received On Ice		

Please see back for terms and conditions